2-Megapixel Digital Camera with Color LCD
User Manual

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2-Megapixel Digital Camera with Color LCD

1 Brief Description

Your 2-megapixel digital camera with color LCD display is roughly the size of a credit card - only 13 mm thick. The camera's portability and convenience are enabled by its "worry free" rechargeable battery, simple user interface, and easy image download when you connect the camera to a PC or Mac with the supplied USB cable.

Package Contents

Be sure to check that the package contains all the items listed below:

Camera	Hand Strap
USB cable	Carry Bag
CD-ROM	Quick Dperation Guide
Hand Strap	Docking Station

If any items are missing, please contact the store where you purchased the camera. Keep the camera packaging in a safe place as it will be needed if you return the camera for repairs, etc.

2 Before Using Your Camera

*To ensure that you use your camera correctly, read the **Safety Notes** in section 8 and the rest of this user's manual carefully.*

Holding the camera correctly

Due to the extremely compact size and light weight of the camera, it is critical that you hold the camera securely in order to avoid "camera shake". The camera is particularly sensitive to "shake" in low light environments. Taking a picture in low light requires a longer exposure time for the image to be captured and any movement during this time might cause a blurred image.

When taking a photo in low light the flash may trigger. Before this happens, try to avoid gripping the camera with your fingers placed on the front face of the camera. Instead, hold the camera on its edges so that the light of the flash does not reflect off your finger(s) and cause lens flare.

Test photos

Before you capture your first images, we recommend you take some test photos to make sure that the camera is working properly. This will also help you become comfortable holding the camera in order to capture satisfactory images.

Identifying the parts

Front View

Back View

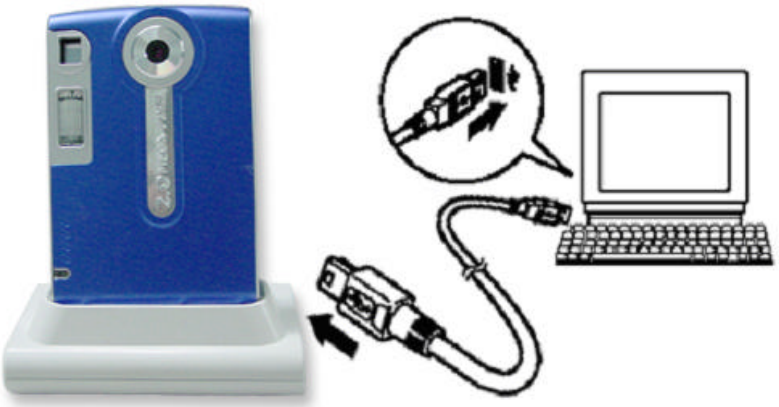
Call out:
Liquid Crystal Display (LCD)
Viewfinder
Green LED
Red LED
Power On/Off
Picture-taking mode
Playback mode
Menu
Select
Up/down
LCD On/Off
SD Card slot
USB connector

3 Using Your 2-Megapixel Digital Camera

Charging the battery

Long battery life is one of the key benefits of this camera compared to other digital cameras. On a full charge, the camera will take hundreds of images with the flash or over one thousand images without the flash. Your camera battery has already been charged prior to shipment. So, you should be able to take pictures without recharging it. However, just to be safe, you may want to follow the instructions below to make sure that your camera is fully charged before leaving home

The lithium-polymer battery used in the camera recharges automatically when the camera is plugged into a PC or Mac via the USB cable. In order to charge the battery the first time, first install the included software (see **Installing the Software** in section 4) and then plug the camera into your computer using the provided USB cable. When the battery is charging, the green LED will blink. When charging is complete, the green LED will be steady on.



Lithium-polymer battery tips:

- **Safety note:** Always observe the precautions described in Section 8.
- It takes approximately 3 hours to fully charge a depleted battery.
- The camera can be charged at ambient temperatures between 0°C and +40°C.
- The battery does not need to be fully discharged or exhausted before being recharged.
- Lithium-polymer batteries lose their charge even when not used. So, be sure to charge the battery before taking pictures.
- To ensure that your battery lasts as long as possible, switch the camera off when you are not using it.
- The number of available shots will be lower at low temperatures. You can increase the amount of power produced by putting the camera in your pocket or another warm place to heat it just before taking pictures. If you are using a heating pad, take care not to place the camera directly against the pad.

Turning on the camera

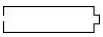
Press the Power button once to turn on the camera. Press it again to turn the camera off.

- **Note:** The camera has an automatic time-out feature to conserve battery life. After one minute (or 2 minutes) the camera will time-out (turn off). When timed out, the camera will not take a photo when you push the shutter button. Press the Power button once to turn on the camera again.
- If power is low, the red LED blinks 5 times and then the camera turns off. Recharge the battery immediately.

Turning on the LCD

The LCD screen comes on automatically in preview mode when the power is turned on. Press the LCD button once more to switch to preview mode with icons visible. Press the LCD button again to turn off the LCD.

Understanding LCD icons

LCD	*Description*
888	Picture Counter. Shows remaining number of shots.
	Indicates Battery Charge State : The battery has ample charge. : The battery is approximately half-charged. : The battery charge is low. Recharge the battery as it will run out shortly.  : The battery has no charge. Recharge before next use.
	Secure Digital card indicator
	Strobe indicator. Flashes on and off while charging. Steady on when flash is set to Automatic.

Mode selection

Your camera has three modes of operation:

- Picture-taking (for capturing images)
- Playback (for reviewing and deleting images)
- USB mode (for downloading images to a computer and charging the battery)

When the USB cable is connected to the camera and a computer, the camera automatically goes to USB mode.

Picture-taking mode

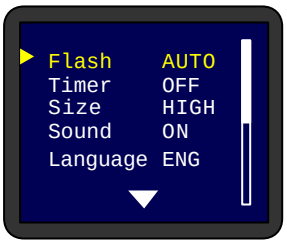
The green LED will be solid when the camera is ready to take pictures. If the green LED is blinking, the camera is not ready. It may blink for 1 second while storing an image and for 5 seconds while recharging the flash.

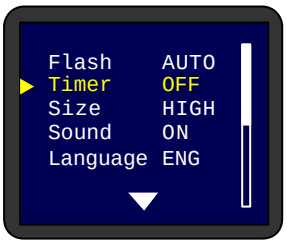
Picture-taking mode menus

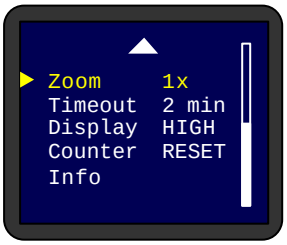
- Press the Menu button to access the menus.
- Use the Up and Down arrow buttons to make selections.
- Press the Select button to cycle through the available options.
- Press the Menu button to save your selections.

Menu	Selection	Description
Flash	AUTO/OFF/ON	Switches the flash from AUTOmatic to OFF, to ON
Timer	OFF/ 10 S/ 2 S	Self-timer is OFF / set to capture an image 10 seconds after pressing the shutter button / set to capture an image 2 seconds after pressing the shutter. After taking the picture the self-timer turns off.
Size	LARGE/MEDIUM/SMALL	Select either LARGE resolution images (2048 x 1536 pixels), MEDIUM resolution images (1600 x 1200pixels), or SMALL resolution images (800 x 600pixels).
Sound	ON/OFF	Turns audio beeps ON or OFF
Language	EFIGS/JPN/KOR	Select any available language: English, French, Italian, German, Spanish, Japanese, Korean. *(Note to OEM: Needs to be customized to your camera.)*
Zoom	1x/2x	Switch between normal and 2x digital zoom
Timeout	1 MIN/2 MIN	The camera will turn off after 1 minute or 2 minutes of inactivity
Display	HIGH/LOW	Select HIGH or LOW LCD brightness
Counter	RESET	Resets the image counter to zero
Info		Provides camera identification such as hardware type, firmware revision, etc.

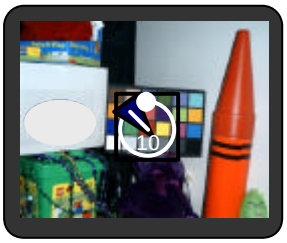
Typical picture-taking mode menu displays







Picture-taking mode with timer on



Note the timer icon in the center of the display. When the timer is on, and set to 10 seconds (for example), the front red LED begins blinking when the shutter button is pressed. It begins counting down with 8 seconds of slow blinking (with audio beeps if the sound is on) and 2 seconds of fast blinking (with audio beeps). After the picture is taken there is a 1 second audio beep and the red LED goes steady.

Playback mode

Use the Playback mode to review images you have captured and to review images in order to delete them. Select Playback mode by sliding the mode switch to the right. The last picture taken is displayed first. If the camera is empty, the display will say "No pictures on camera." Only the active media (SD card or internal memory) is displayed. In order to review pictures in internal memory, the SD card must be removed. After a picture has been deleted, the camera will return to Playback mode.

Playback mode menus

Menu	Selection	Description
Delete	Confirm delete of current image	Select Yes or No
Delete All	Confirm delete of all images	Select Yes or No
Format Media	Formats the SD memory card	Select Yes or No

USB mode

Use the USB mode to download images to your computer and to recharge the camera's battery. The mode selection switch can be in either position (Picture-taking or Playback). Connect the mini USB plug to the mini USB socket on the camera and connect the larger size USB plug to the USB socket on your computer. You will hear a low-high beep when connecting and a high-low beep when disconnecting. All camera buttons are inactive during USB mode.

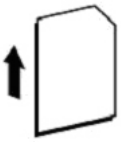
USB mode activity

Activity	What's Happening
Blinking green LED	Charging
Solid green LED	Fully-charged
Medium blinking red LED	USB waiting for enumeration
Solid red LED	USB connected
Fast blinking red LED	USB transferring data

Note: See Section 5 on how to download images to your computer.

Using Secure Digital (SD) memory cards

Your camera is capable of storing images on Secure Digital (SD) memory cards. To use an SD card, insert the card into the SD slot in your camera. The LCD will show the SD card indicator when an SD card is in the slot.



Insert SD Card in the card slot

SD card icon is displayed when card is inserted

It may be necessary to format the SD card the first time it is used; especially if the card has been used in devices other than your camera. When the SD card needs to be formatted, an error beep will sound and the LCD will display "E2". To format, see **Deleting an Image/Formatting Flash Memory or SD Card** in section 3.

If the SD card is full, the LCD display will read "ðð" and the SD card icon will be solid. If the SD card is write-protected, the LCD display will read "ðð" and the SD card icon will flash.

If there is an error writing to the card, the LCD display will read "E1" and the SD card icon will flash.

Changing resolution

Your 2MP Digital Camera offers three choices in resolution: Large, Medium and Small. Large resolution is 2048 x 1536 pixels, Medium resolution is 1600 x1200 pixels, and Small resolution is 800 x 600 pixels. The higher resolution setting allows for an image to be printed as large as 8 x 10 inches, but requires more memory to store. The lower resolution setting will allow for more images to be stored on the camera, but does not ensure print-quality detail. It is best suited for images to be e-mailed or posted on a Web site.

Size	Resolution Size	# of Available Shots (16MB internal memory)
Large	2048x 1536 pixels	14
Medium	1600 x 1200 pixels	14
Small	800 x 600 pixels	28

To change the resolution:

- Turn the camera on and move the mode button to the left to Picture-taking.
- Select Size and then select LARGE, MEDIUM or SMALL.

Turning sound on/off

- Turn the camera on and move the mode button to the left to Picture-taking.
- Select Sound and then select ON or OFF.

Taking pictures

To take pictures using your 2MP Digital Camera:

- Turn the camera on.
- In low light conditions, check to make sure the flash is ready. Be sure the Flash is set to AUTO.
- Use the aiming mark in the viewfinder to center the image you want to capture.
- Alternatively, use the color LCD display to view the image you want to capture. The color LCD comes on automatically in preview mode when the camera is turned on. Press the LCD button again to view preview mode with icons.
- Hold the camera still and press the shutter button.
- The LCD will indicate when the picture has been successfully taken by cycling through the number display. If the sound feature is turned on, one short beep will also indicate that a picture has been taken.

Note: Safety while taking pictures

Do not use the camera while you are walking, running, driving or operating machinery. Doing so can result in a serious accident.

About Autobrite®technology

The camera offers the benefits of a technology known as Autobrite. This technology automatically adjusts the exposure and captures crisp details in scenes where both dim and bright lighting conditions are present, such as glare or backlighting. Most existing digital cameras produce washed out or silhouetted images under such conditions. We suggest you try to avoid taking pictures pointing directly at bright objects (such as the sun), due to the potential impact of extremely bright lighting on image quality and lens flare.

Autobrite is proprietary to SMaL Camera Technologies, Inc. of Cambridge, Massachusetts, USA.

Low light lock-out

Low light lock-out is a feature that prevents the camera from taking pictures in low light settings when the flash is not ready. When low light lock-out is enabled the camera will give a warning beep – even if the sound is off. To override low light lock-out, continue holding the shutter button for 1 second after the warning beep. To turn low light lock-out on or off see **Configuring the Camera** in section 5.

Deleting an image

To delete the most recent image:

- Turn the camera on and switch the Picture-Taking Mode/ Playback Mode to playback.
- Press the Menu button and select Delete.
- Use the up/down arrow buttons to select Yes to delete the image or No to save the image.
- Press the Select button to confirm your selection. Two audio beeps will confirm your selection.
- Repeat the process again to delete the next most recent image.
- To resume taking pictures move the mode selection switch to the left to Picture-taking mode.

To delete all the images on the camera:

- Turn the camera on and switch the Picture-Taking Mode/ playback Mode to Playback.
- Press the Menu button and select Delete All.
- Use the up/down arrow buttons to select Yes to delete all the images or No to save all the images.
- Press the Select button to confirm your selection. Two audio beeps will confirm your selection.
- To resume taking pictures move the mode selection switch to the left to Picture-taking mode.

Formatting internal flash memory or SD card

To format internal flash memory or SD card

Warning: Formatting an SD card or flash memory will delete all information.

- If formatting an SD card, insert the card into the camera. Remove the SD card if you are formatting the internal flash memory.
- Turn the camera on and switch the Picture-Taking Mode/ Playback Mode to playback.
- Press the Menu button and use the up/down arrow buttons to Select Format.
- Press the Select button to confirm your selection.
- Use the up/down arrow buttons to select Yes/No.
- Press the select button to confirm your selection.
- To resume taking pictures, switch the mode selection switch to Picture-Taking mode.

4 Installing the Software

Important for PC/Windows users: It is necessary to install the included software **before** connecting your camera to the computer.

System requirements

Windows

- Windows 98 (including SE), ME, 2000, or XP
- 200 MHz Pentium or better
- 32MB RAM
- 200MB available Hard Drive space
- CD-ROM

Mac

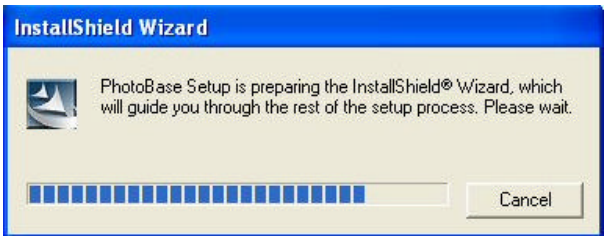
- Power Macintosh G3 200 MHz minimum
- Mac OS X
- 32MB RAM
- 200MB available Hard Drive space
- CD-ROM

Installing Windows/PC software

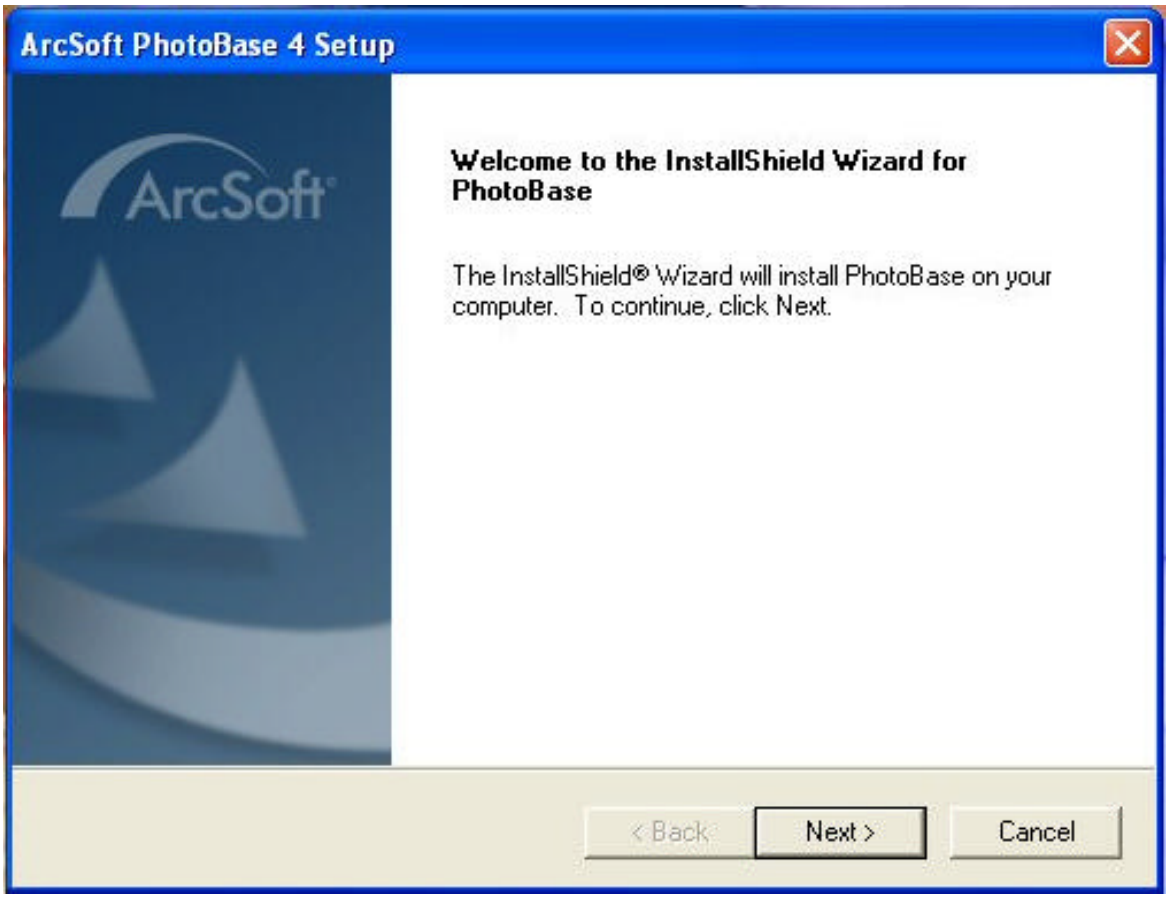
Important: Do not connect your camera to your PC using the USB cable until software has been installed. Installing the software also installs the necessary drivers for the camera to be able to communicate with your computer.

- Insert the installation CD into the CD-ROM drive.

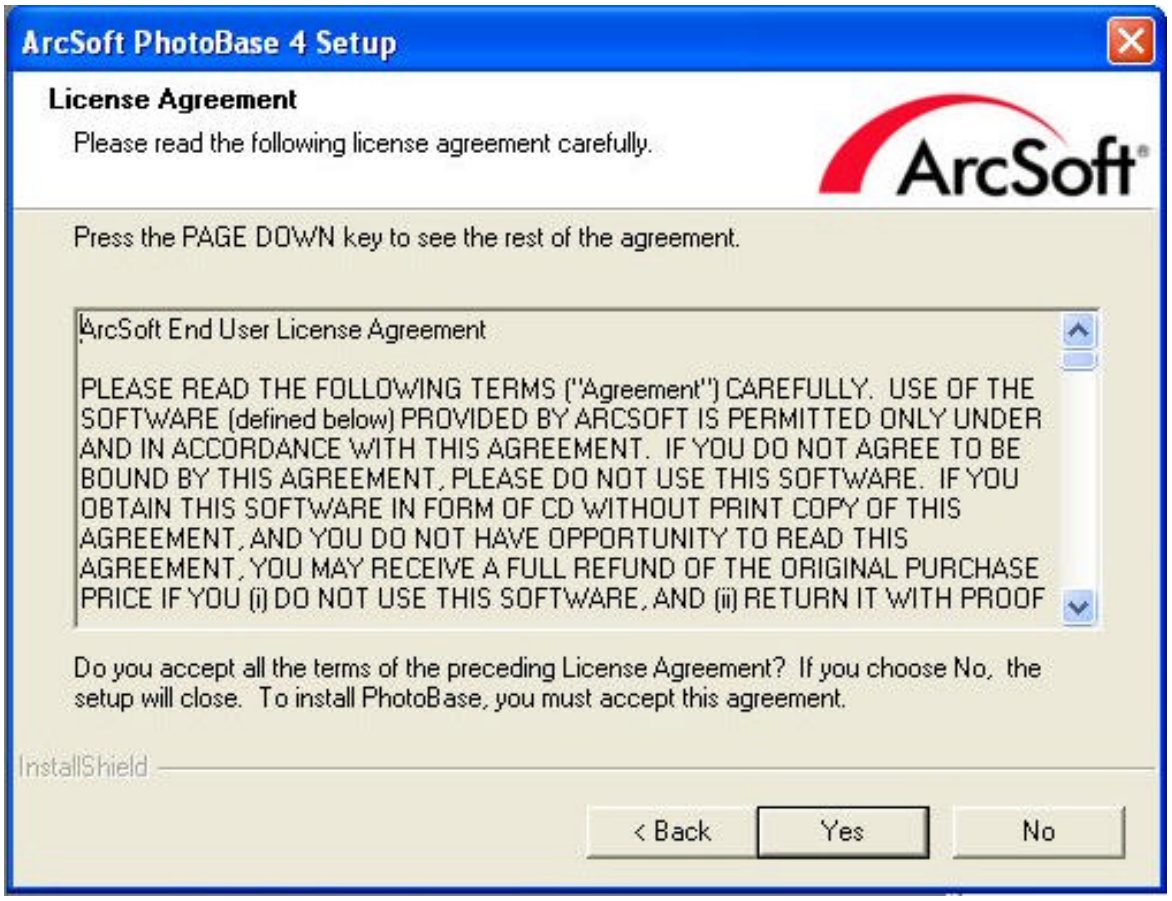
- InstallShield Wizard will automatically begin to install. (note to Salix: the CD you sent us did not install automatically, so SMaL can't confirm the accuracy of this)


InstallShield Wizard
PhotoBase Setup is preparing the InstallShield® Wizard, which will guide you through the rest of the setup process. Please wait.
Cancel

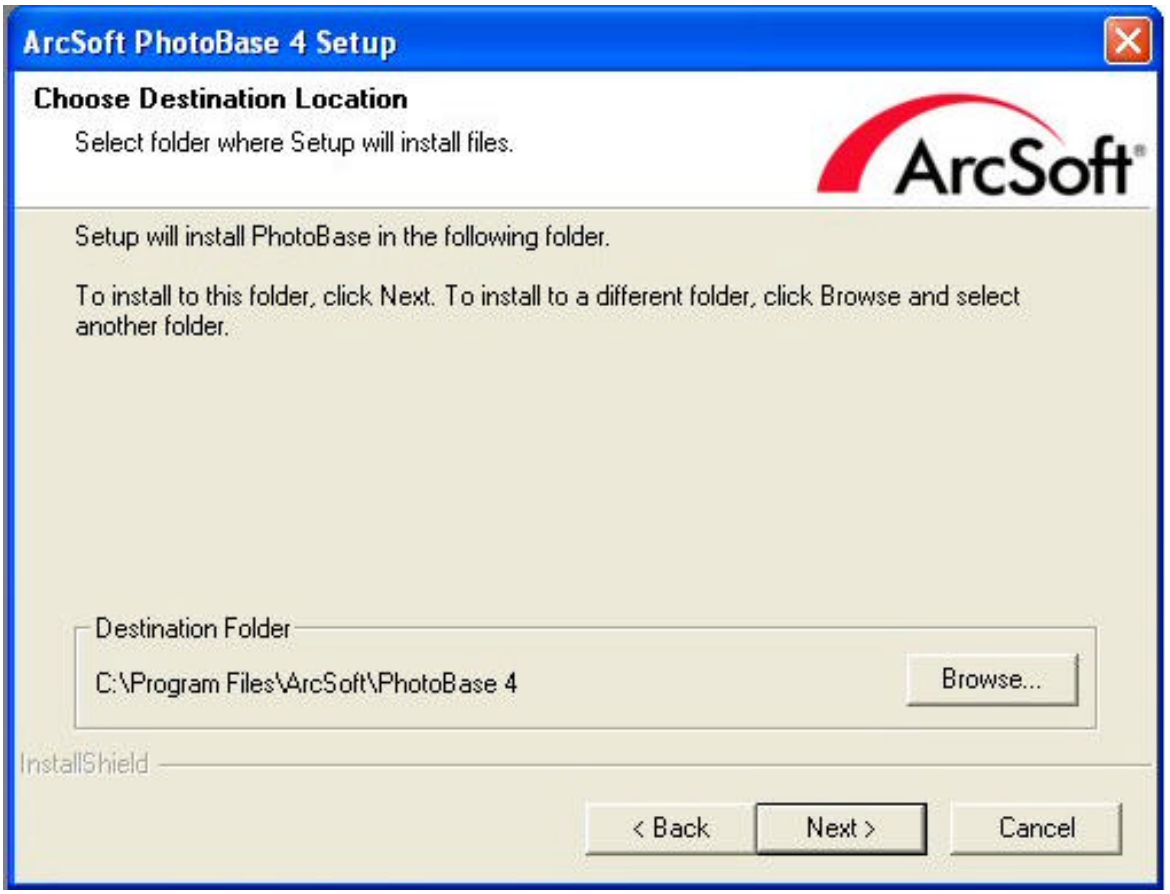
- If the installation does not automatically begin, run the Setup program from your CD-ROM Drive (D:\ultrapocket_2003.06.25_WIN.exe).


ArcSoft PhotoBase 4 Setup
ArcSoft
Welcome to the InstallShield Wizard for PhotoBase
The InstallShield® Wizard will install PhotoBase on your computer. To continue, click Next.
< Back
Next >
Cancel

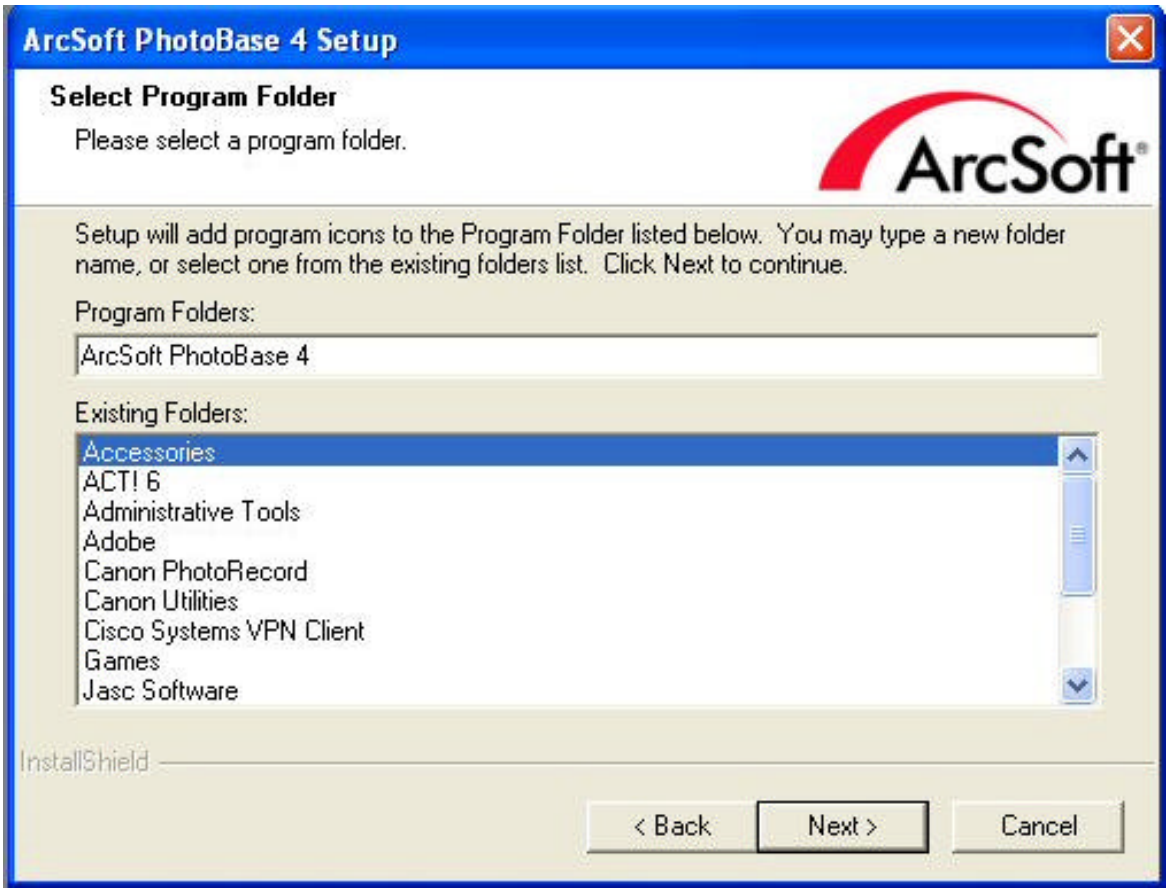
- Click the Next button to begin.


ArcSoft PhotoBase 4 Setup
License Agreement
Please read the following license agreement carefully.
ArcSoft
Press the PAGE DOWN key to see the rest of the agreement.
ArcSoft End User License Agreement
PLEASE READ THE FOLLOWING TERMS ("Agreement") CAREFULLY. USE OF THE SOFTWARE (defined below) PROVIDED BY ARCSOFT IS PERMITTED ONLY UNDER AND IN ACCORDANCE WITH THIS AGREEMENT. IF YOU DO NOT AGREE TO BE BOUND BY THIS AGREEMENT, PLEASE DO NOT USE THIS SOFTWARE. IF YOU OBTAIN THIS SOFTWARE IN FORM OF CD WITHOUT PRINT COPY OF THIS AGREEMENT, AND YOU DO NOT HAVE OPPORTUNITY TO READ THIS AGREEMENT, YOU MAY RECEIVE A FULL REFUND OF THE ORIGINAL PURCHASE PRICE IF YOU (i) DO NOT USE THIS SOFTWARE, AND (ii) RETURN IT WITH PROOF
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install PhotoBase, you must accept this agreement.
InstallShield
< Back
Yes
No

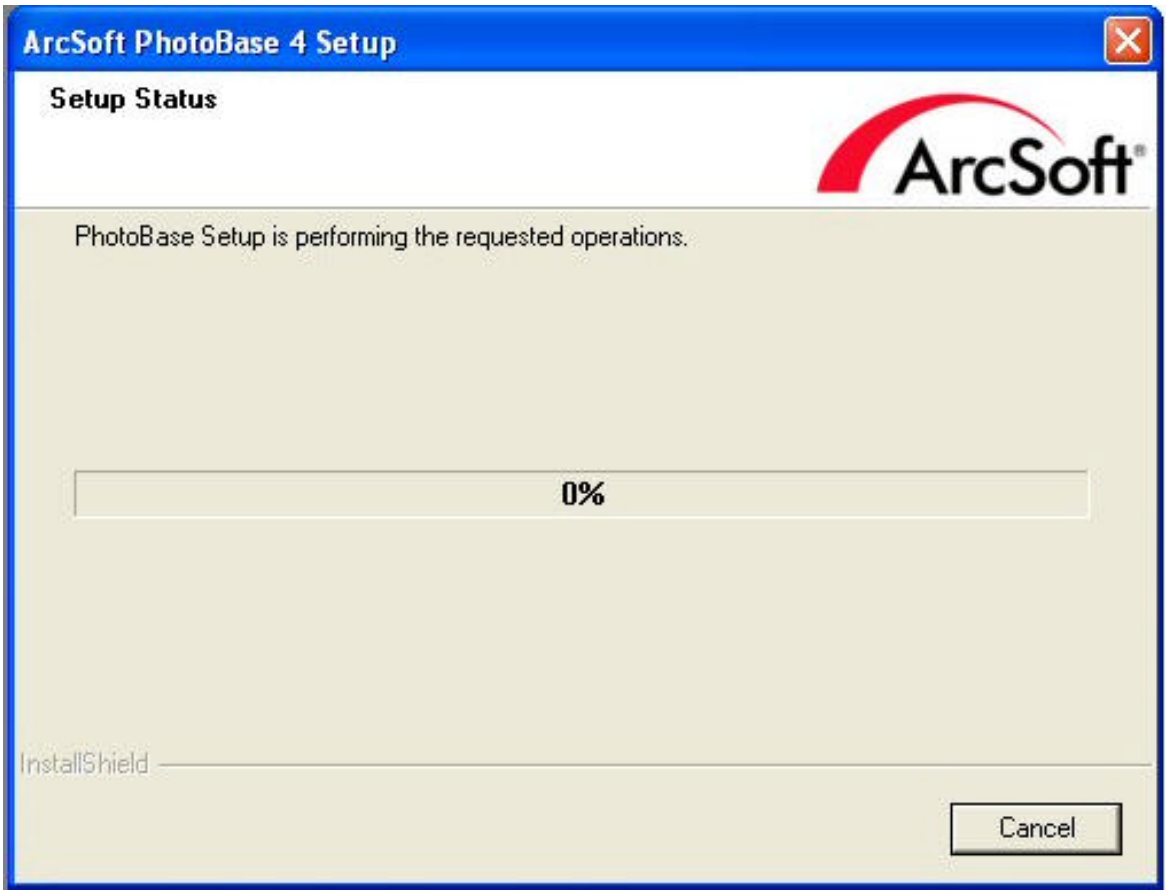
- If you accept the terms of the License Agreement, click the Yes button (note: in order to install this program, you must accept this agreement).


ArcSoft PhotoBase 4 Setup
Choose Destination Location
Select folder where Setup will install files.
ArcSoft
Setup will install PhotoBase in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\ArcSoft\PhotoBase 4
Browse...
InstallShield
< Back
Next >
Cancel

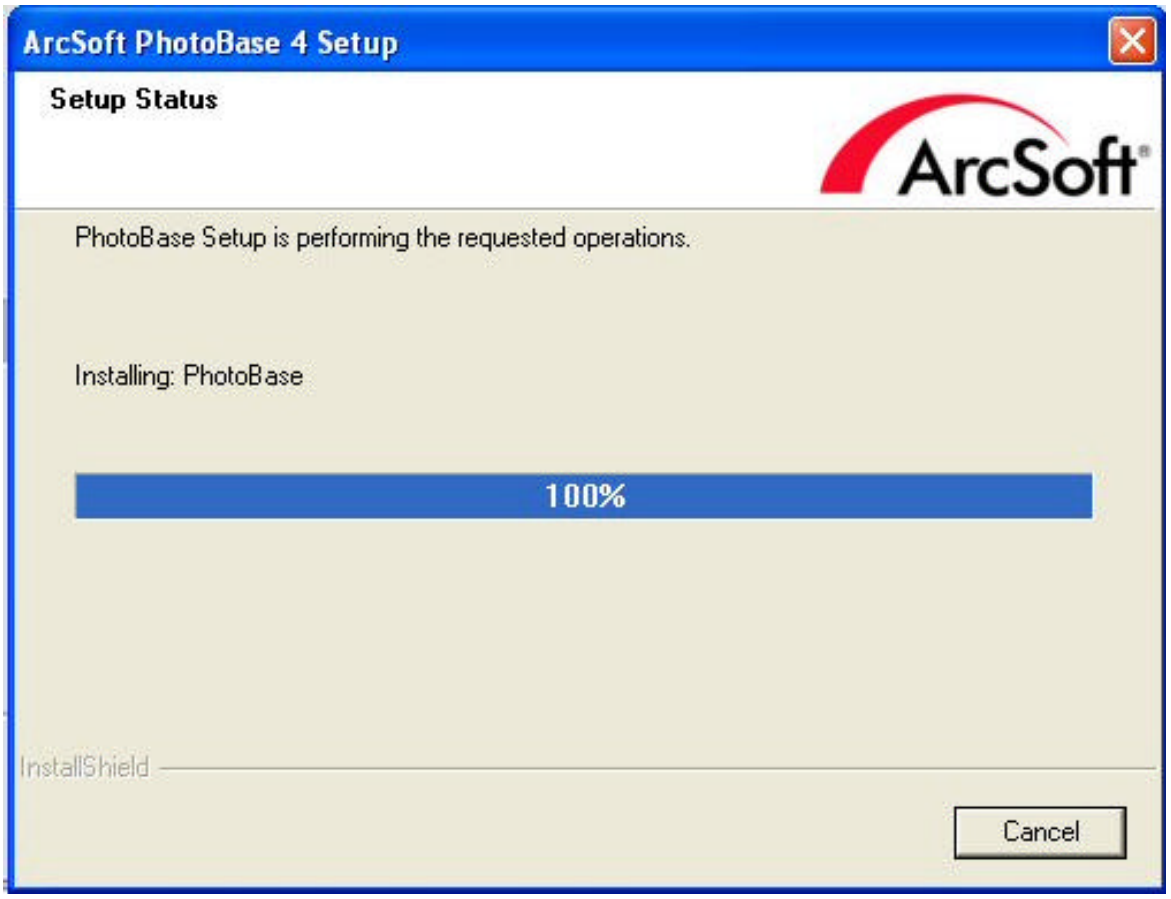
- You will be asked to select a destination folder for the program files to be stored. If you want to change the directory, click browse. Otherwise, click Next.



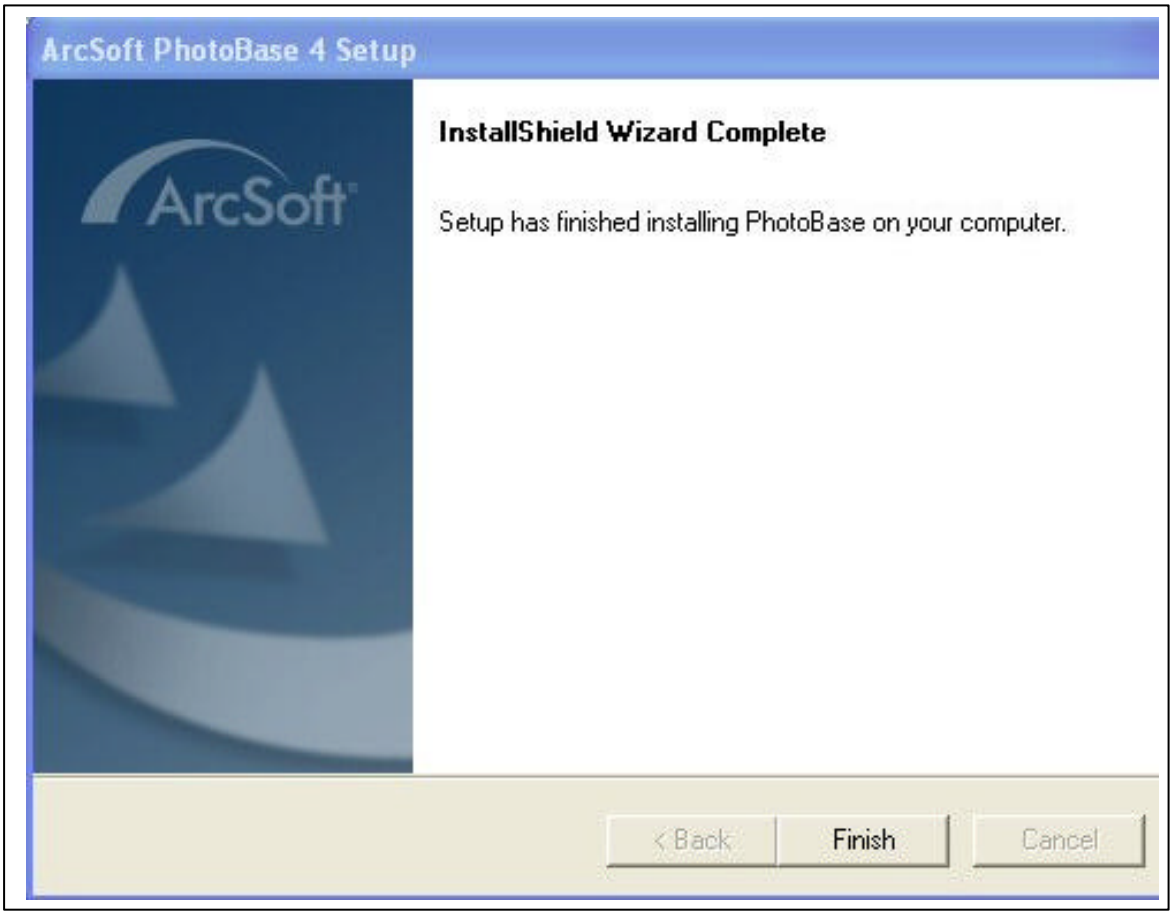
- When prompted to select where the program icons will be added in your Program Folder, click Next.



- Installation will begin and you will see a progress indicator.

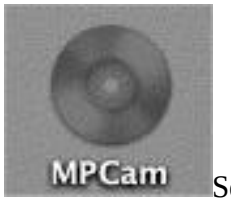


- You will see the above message when setup has reached 100%.

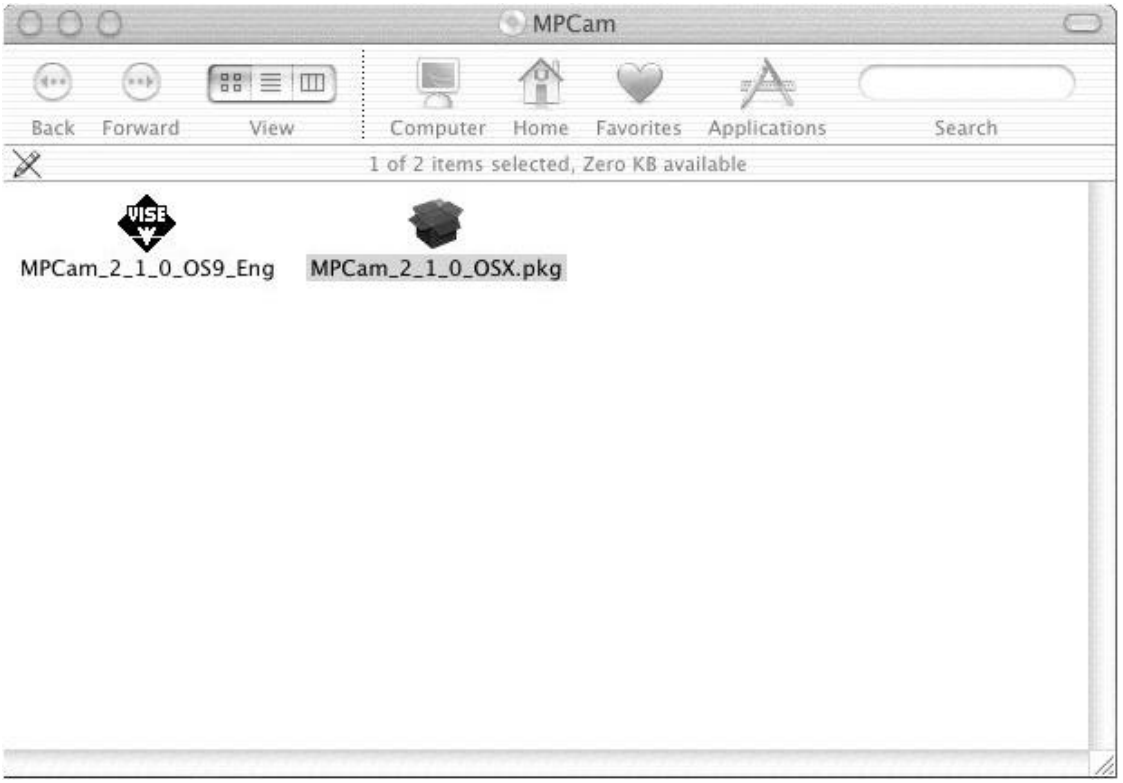


- Click Finish.

Installing Mac OS X software

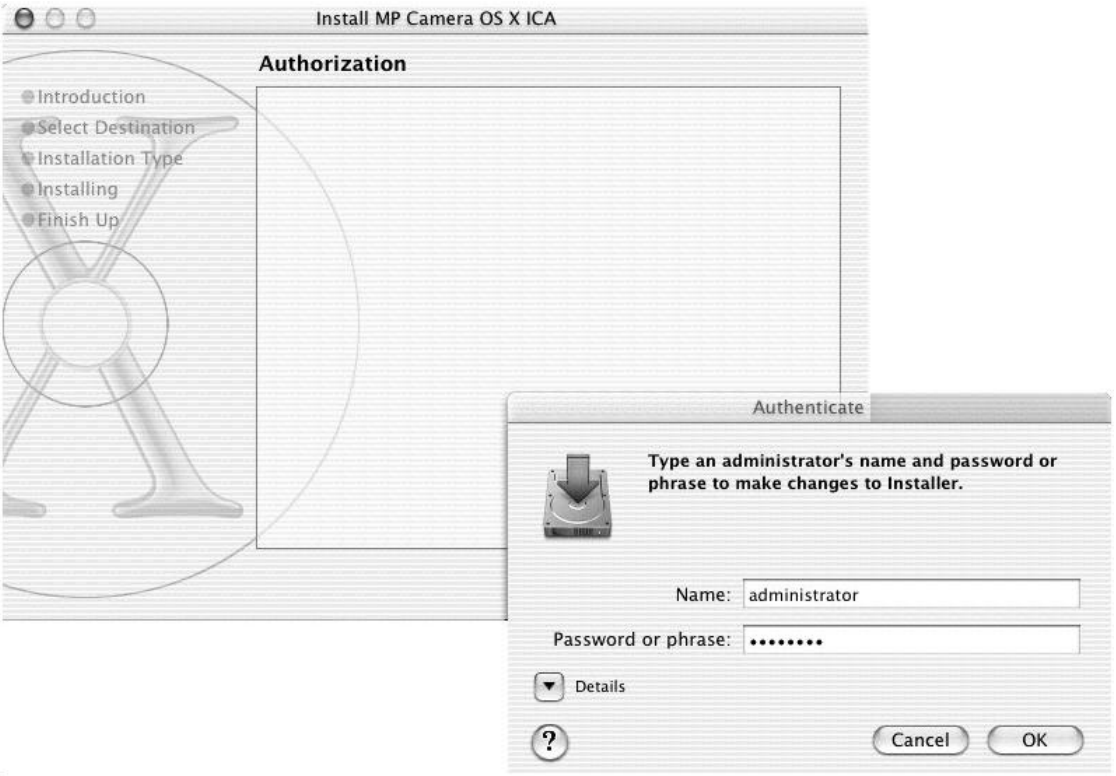
- Insert the installation CD into the CD-ROM drive.
- 

Select the _____ icon.

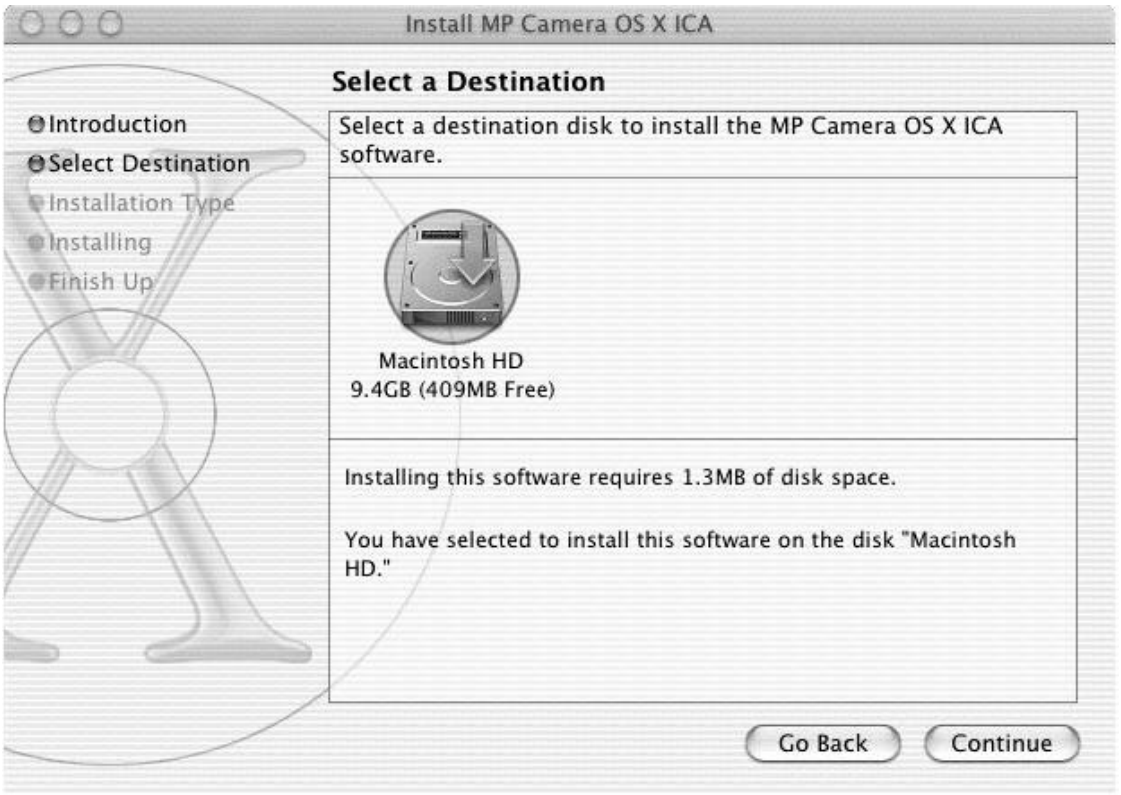


- Select the file “MPCam-x-x-x_OSX..pkg”.

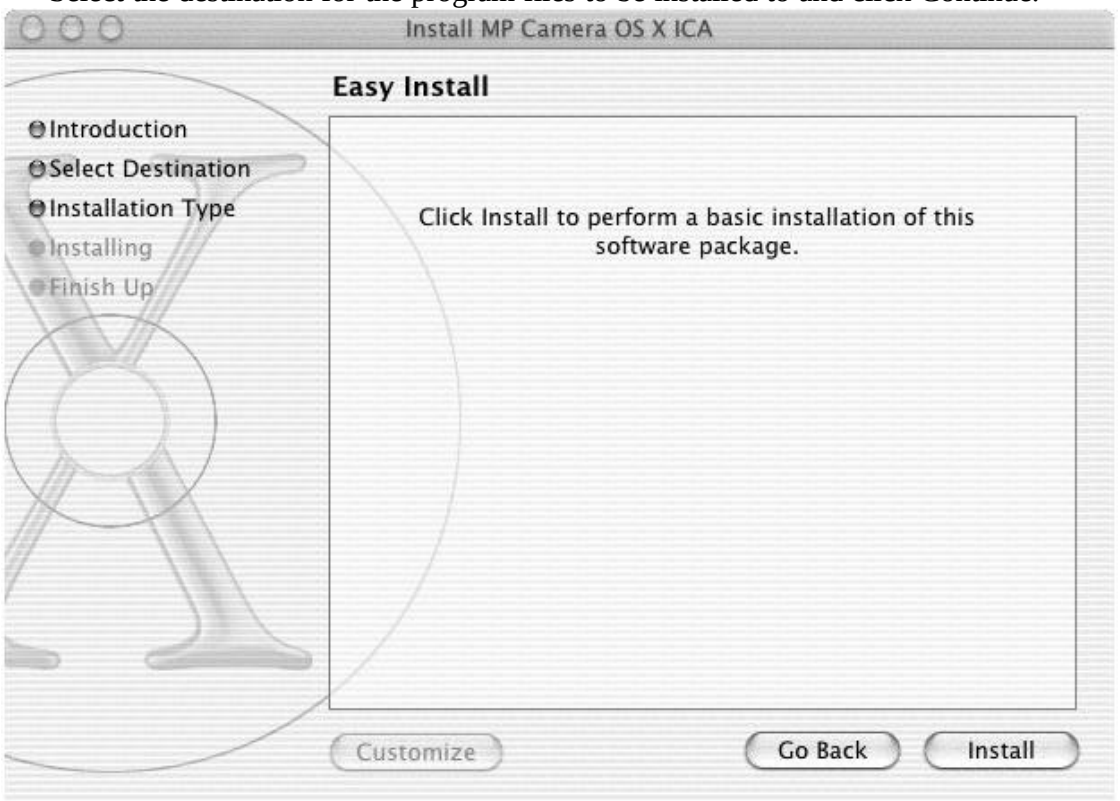
- The Installation program will open.



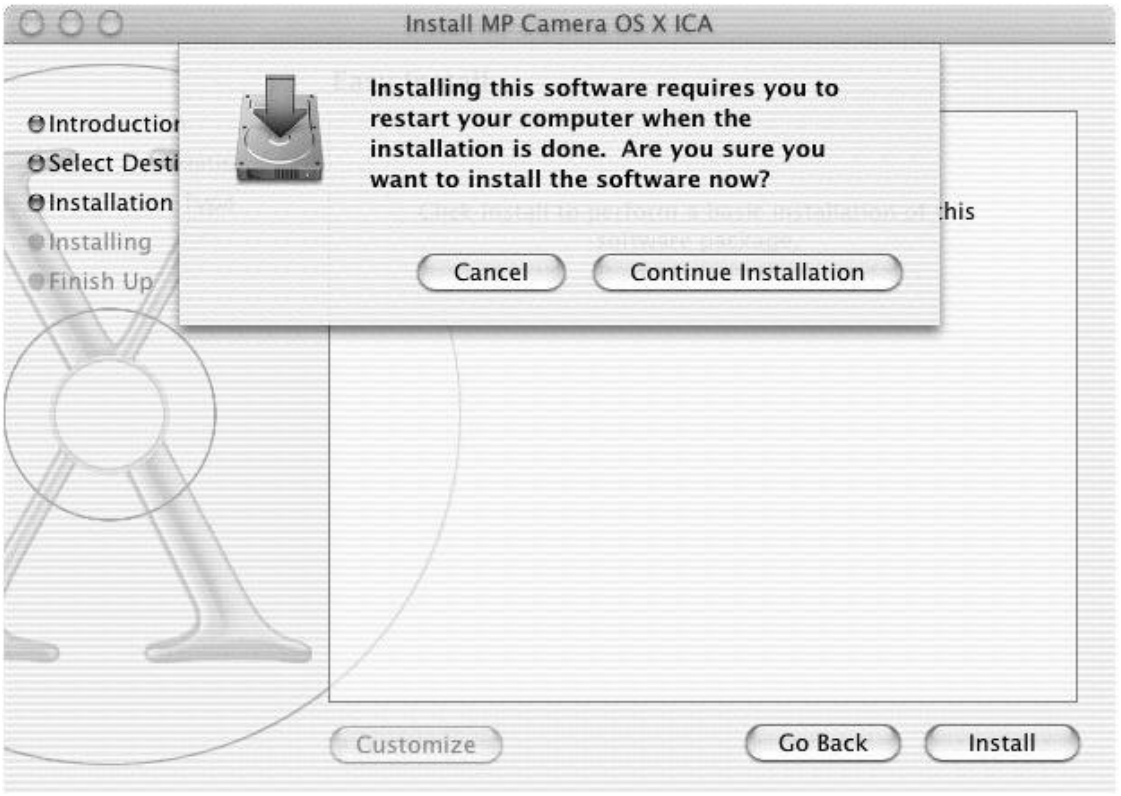
- Enter administrator name and password. Click OK.
- The Welcome screen will be displayed. Click Continue.


Install MP Camera OS X ICA
Select a Destination
Introduction
Select Destination
Installation Type
Installing
Finish Up
Select a destination disk to install the MP Camera OS X ICA software.
Macintosh HD
9.4GB (409MB Free)
Installing this software requires 1.3MB of disk space.
You have selected to install this software on the disk "Macintosh HD."
Go Back
Continue

- Select the destination for the program files to be installed to and click Continue.



- Click Install.



- You will see this message telling you to restart your computer after installation. Save and close all running programs and click Continue Installation.

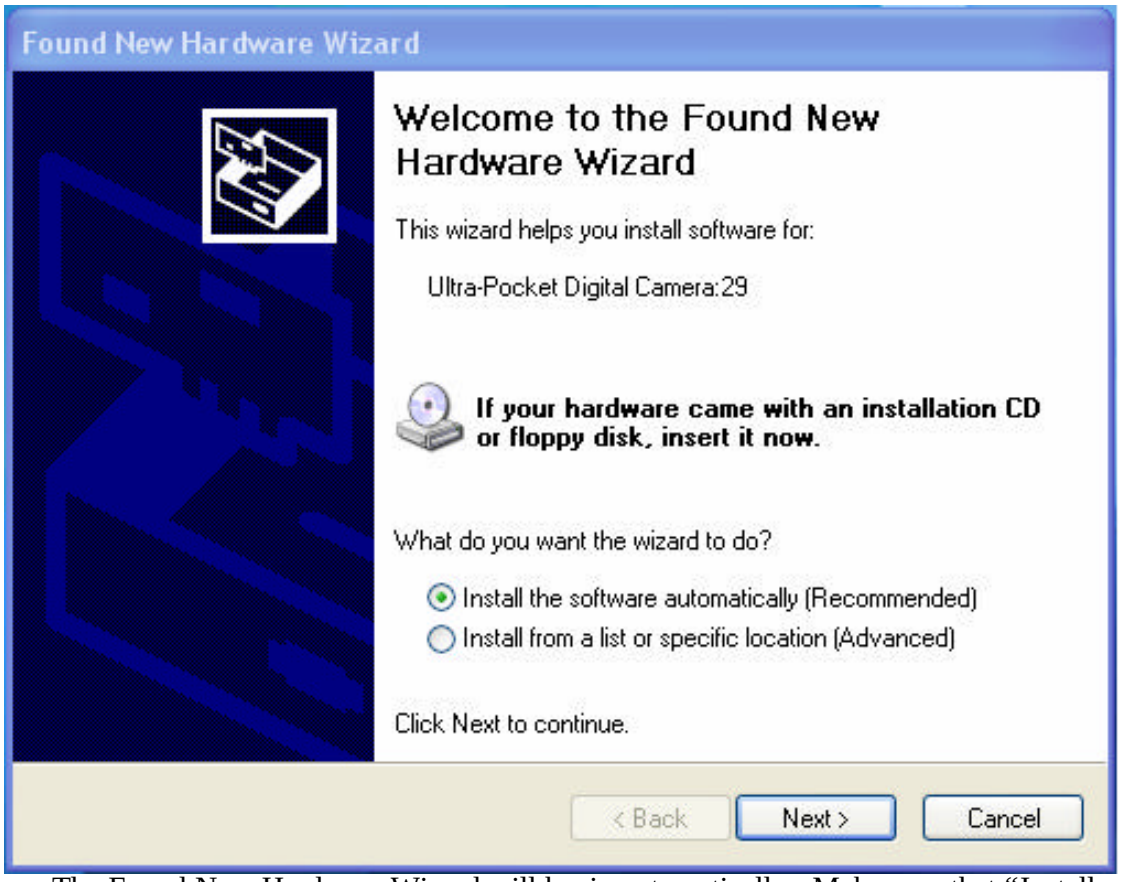
- The computer needs to be restarted after installation is completed. Click Restart.

5 Connecting the 2MP Digital Camera to Your PC or Mac

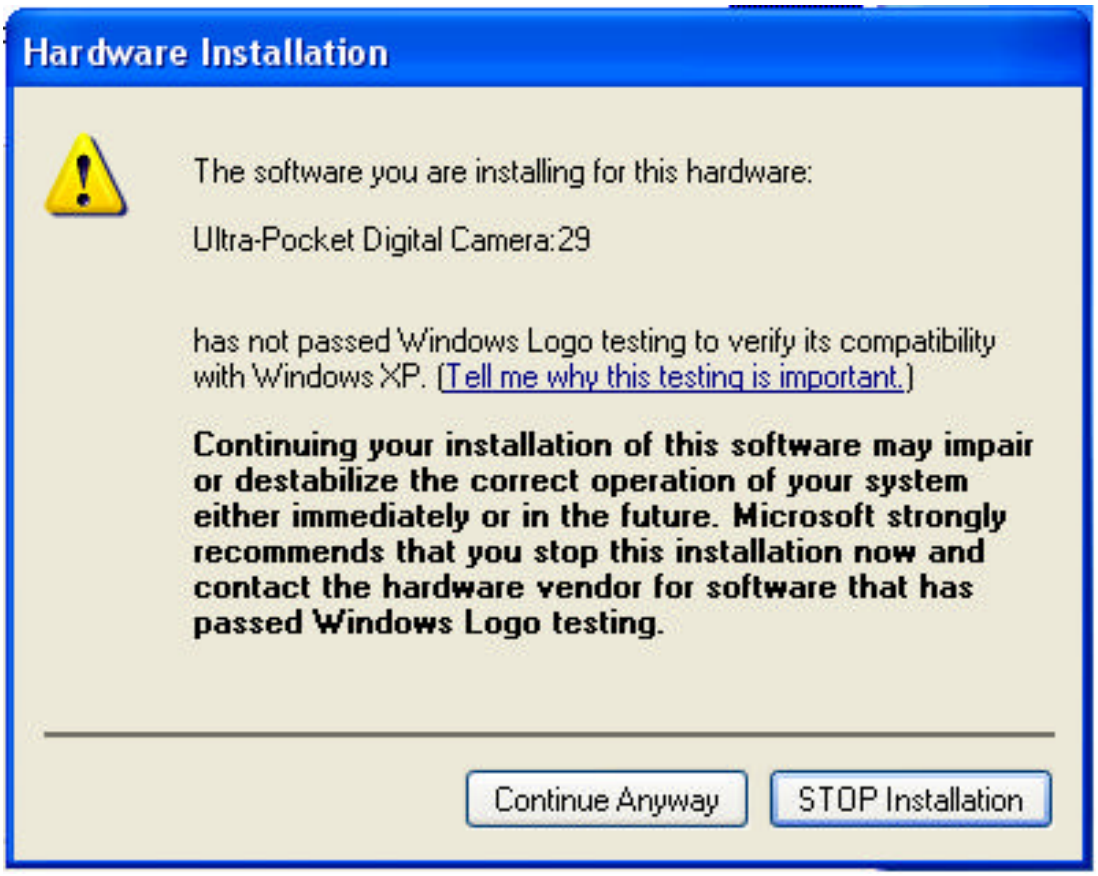
After the software has been installed on your computer, plug the camera into an available USB port using the provided USB cable. The Windows operating system requires that you install drivers for the camera so that the camera and computer can communicate properly. To do this:

- Connect your camera to an available USB Port.

- When connected to your PC the computer will recognize the new device and display a "Found New Hardware" message. You must wait while the computer identifies your camera. If you have already installed the software, the information window will display the name of the device connected. If you have not installed the software, disconnect the camera from your computer and follow the direction under **Installing the Software** in this section.

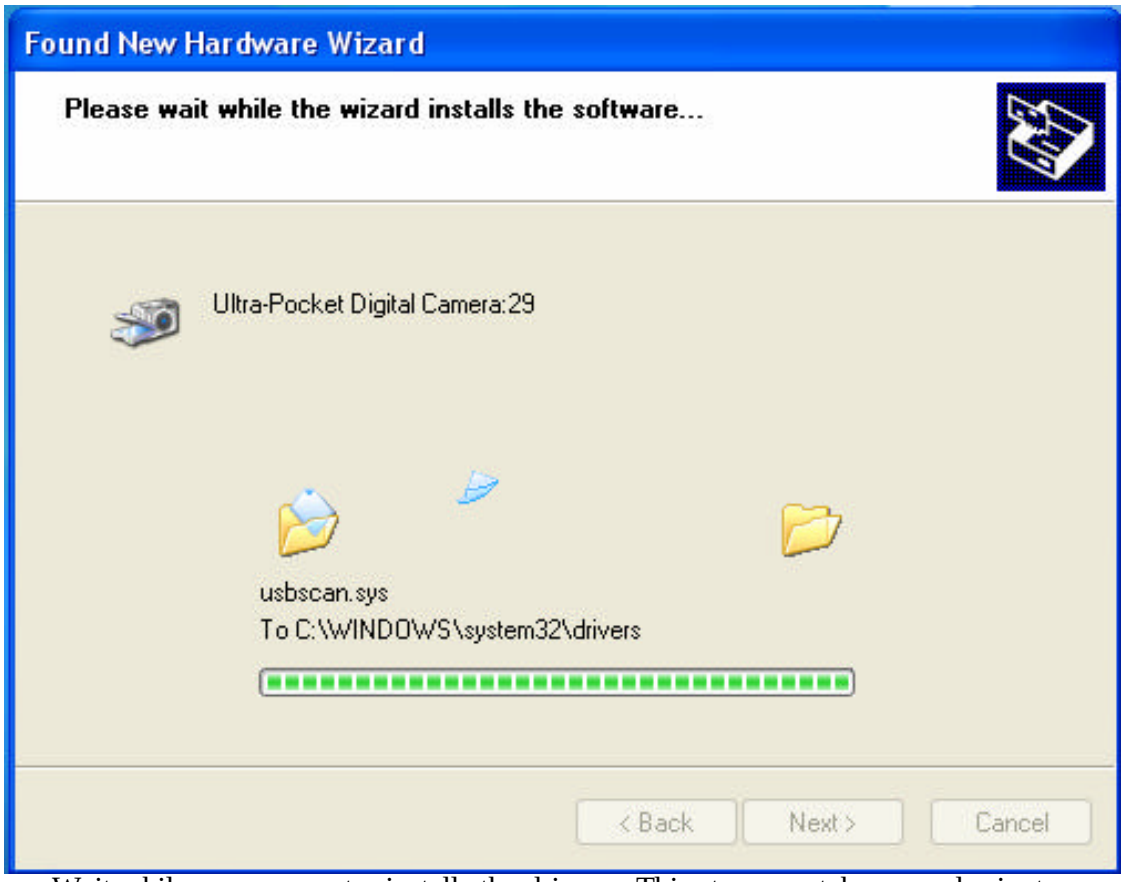

Found New Hardware Wizard
Welcome to the Found New Hardware Wizard
This wizard helps you install software for:
Ultra-Pocket Digital Camera:29
If your hardware came with an installation CD or floppy disk, insert it now.
What do you want the wizard to do?
Install the software automatically (Recommended)
Install from a list or specific location (Advanced)
Click Next to continue.
< Back
Next >
Cancel

- The Found New Hardware Wizard will begin automatically. Make sure that "Install the software automatically" is selected, and click Next.


Hardware Installation
The software you are installing for this hardware:
Ultra-Pocket Digital Camera:29
has not passed Windows Logo testing to verify its compatibility with Windows XP. (Tell me why this testing is important.)
Continuing your installation of this software may impair or destabilize the correct operation of your system either immediately or in the future. Microsoft strongly recommends that you stop this installation now and contact the hardware vendor for software that has passed Windows Logo testing.
Continue Anyway
STOP Installation

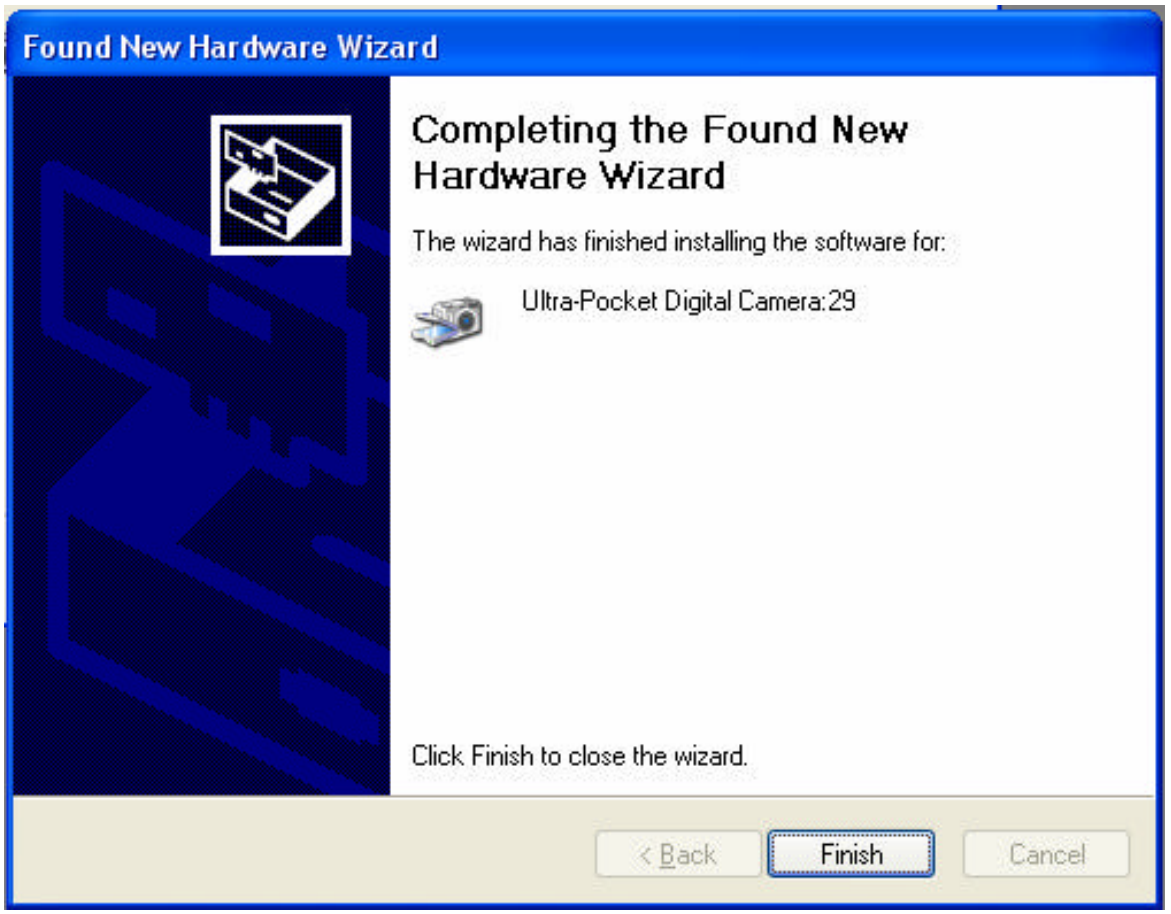
- Windows will begin to search for the necessary drivers on your system. These were installed with the software. When your computer locates the drivers, your computer may display the following message:

If you see this message, click Continue Anyway. Your camera has been thoroughly tested and will work with your system. The drivers are undergoing Microsoft's driver approval process (WHQL certification). Upon completion of this process, they will be digitally signed and this message will no longer appear.



- Wait while your computer installs the drivers. This step may take several minutes.

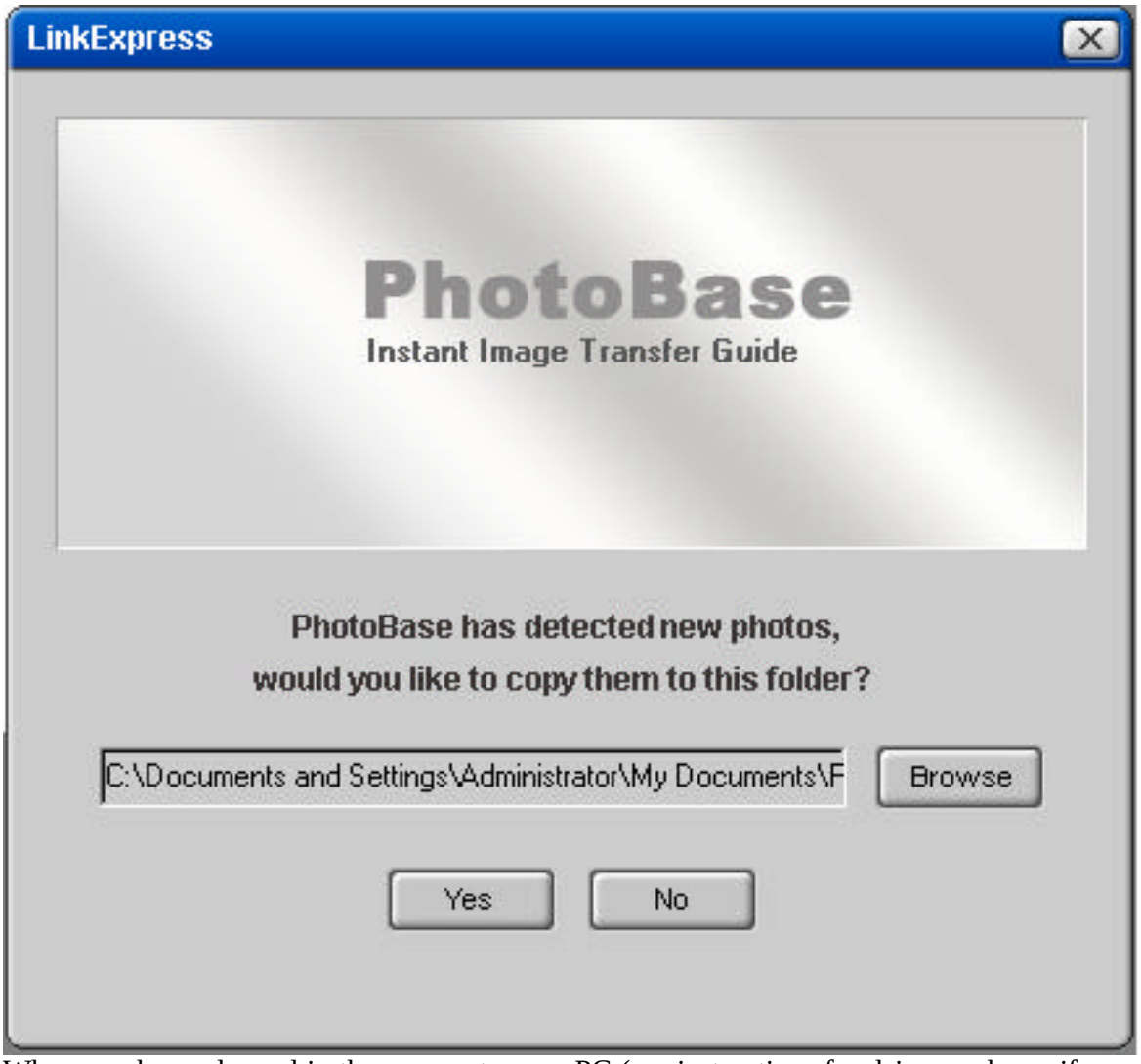
Mac Note: The drivers for the Mac are installed with the software and will not require any additional set up.



Auto-Download of images from the camera

Note: Because the files stored in your camera are specially compressed to increase storage capacity, images must be downloaded using Photo Album before the images are converted into JPEG format images for use with other programs or computers.

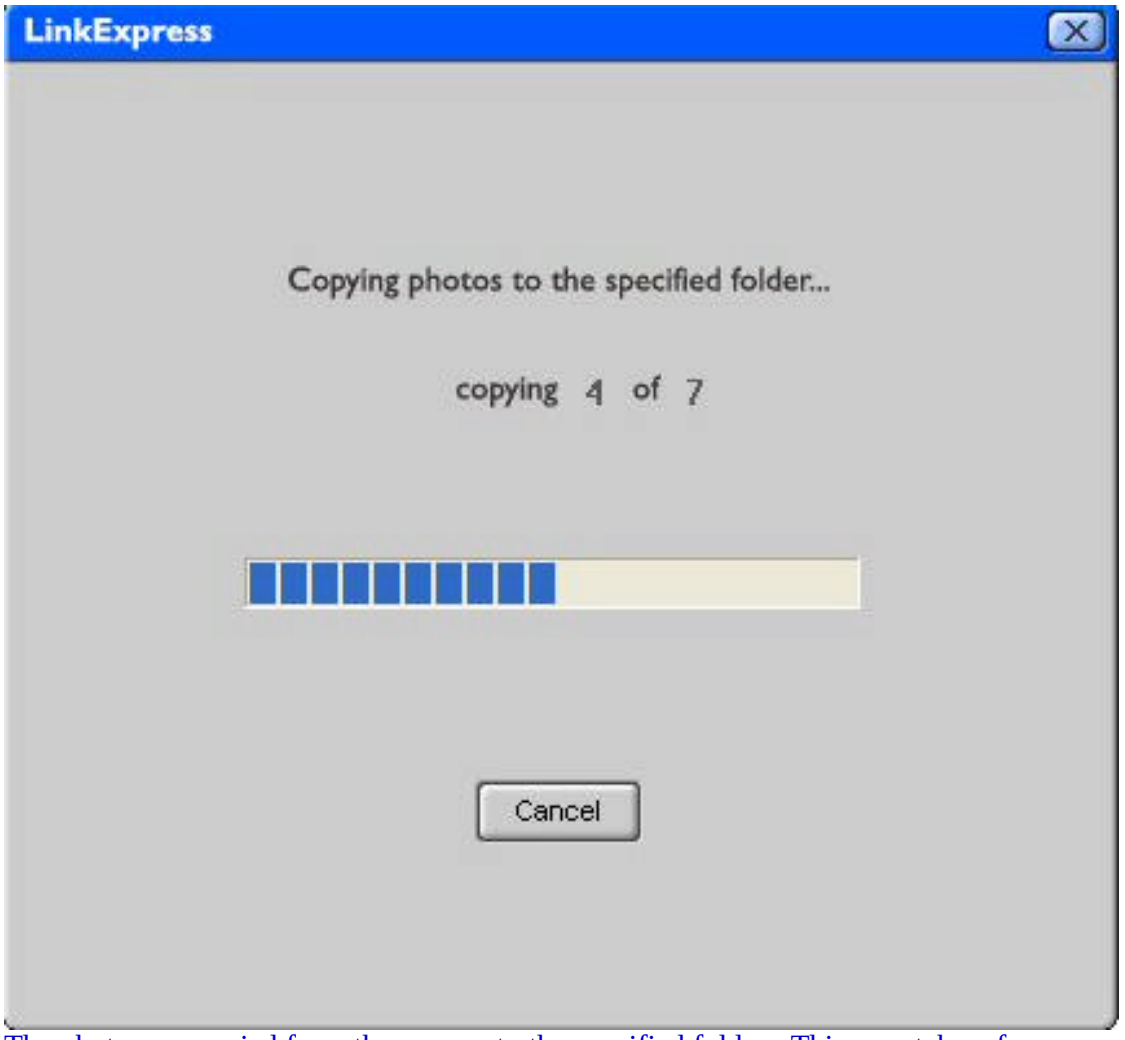
Note for Mac OS X users: The software that is installed enables iPhoto to process the images from the digital camera.



When you have plugged in the camera to your PC (see instructions for doing so above, if needed), the auto-launch of the Photo Viewer is triggered.

You will be pompted to enter a destination directory. This is the directory where all of the images downloaded from the camera will be stored. Click Yes, unless you want to specify a different destination directory.

- As the images are downloaded they will be displayed as thumbnails in the main window of Photo Album.
- If you want all the selected images deleted after downloading to your PC, click OK. But if you want the selected images to remain stored on your camera after download to your PC, un-check the box that says, “Delete selected after download” and then click.

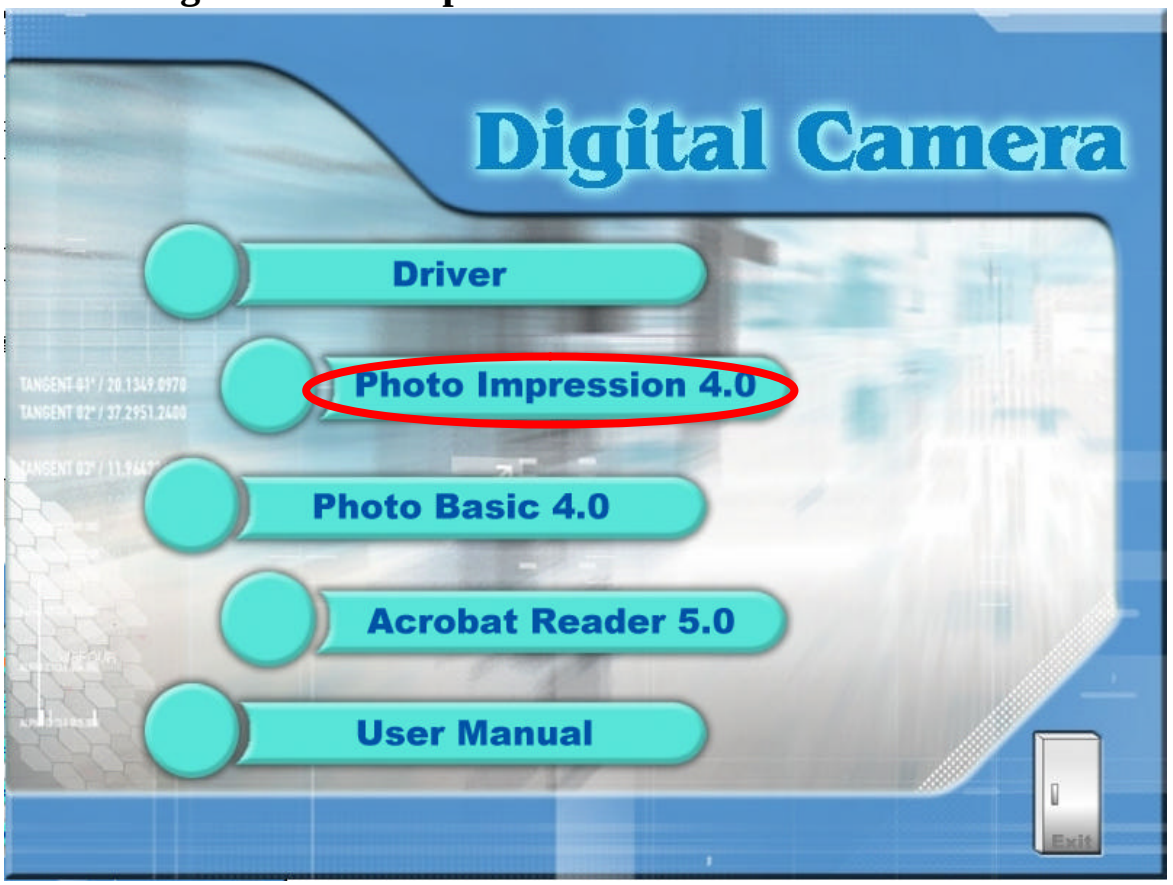


The photos are copied from the camera to the specified folder. This may take a few moments.

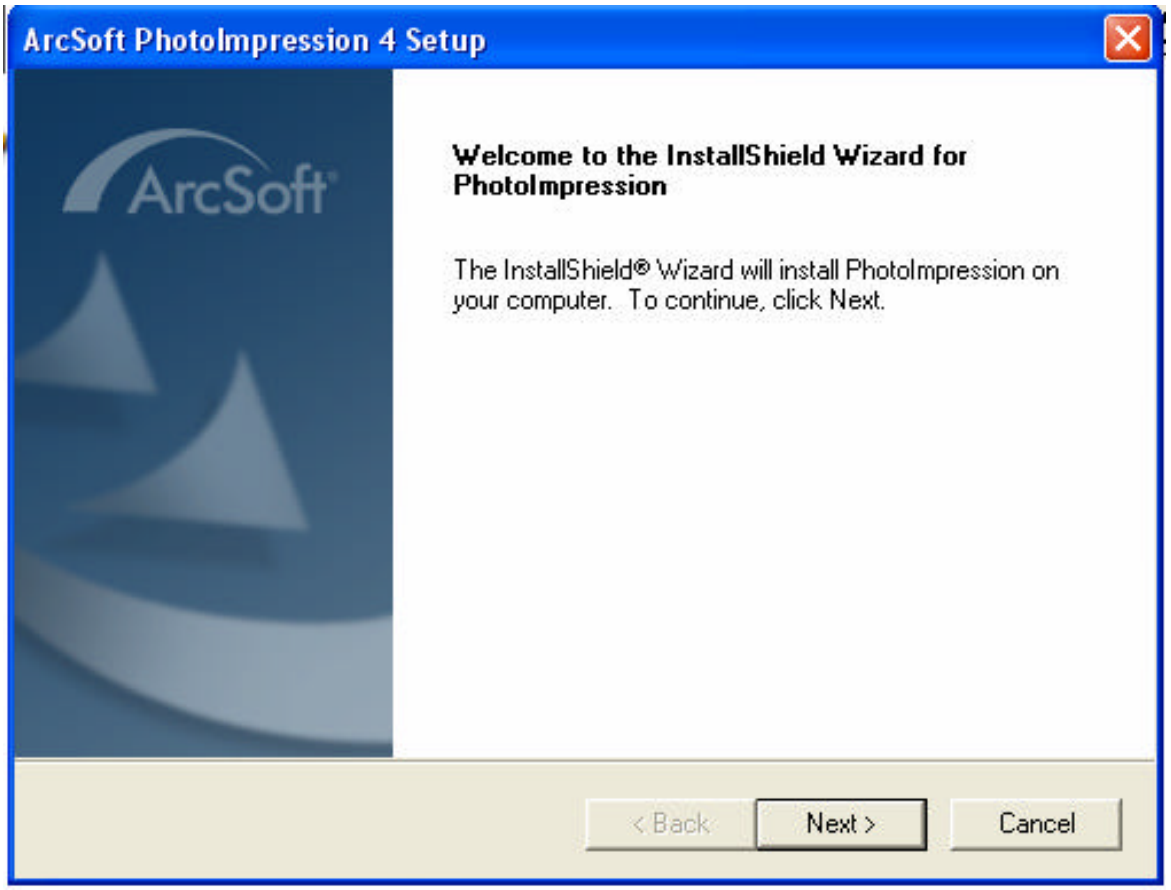
Click OK.

Note on "SD Write-Back": Once the images have been processed in the Photo Album (and automatically converted into JPEG files), these images are automatically stored in your destination folder on your computer. In addition, when Photo Album has processed images that were downloaded originally from your SD card, those images are "written back" and stored on your SD card. The original 'raw' files on your SD card are replaced by the newly converted JPEG files.

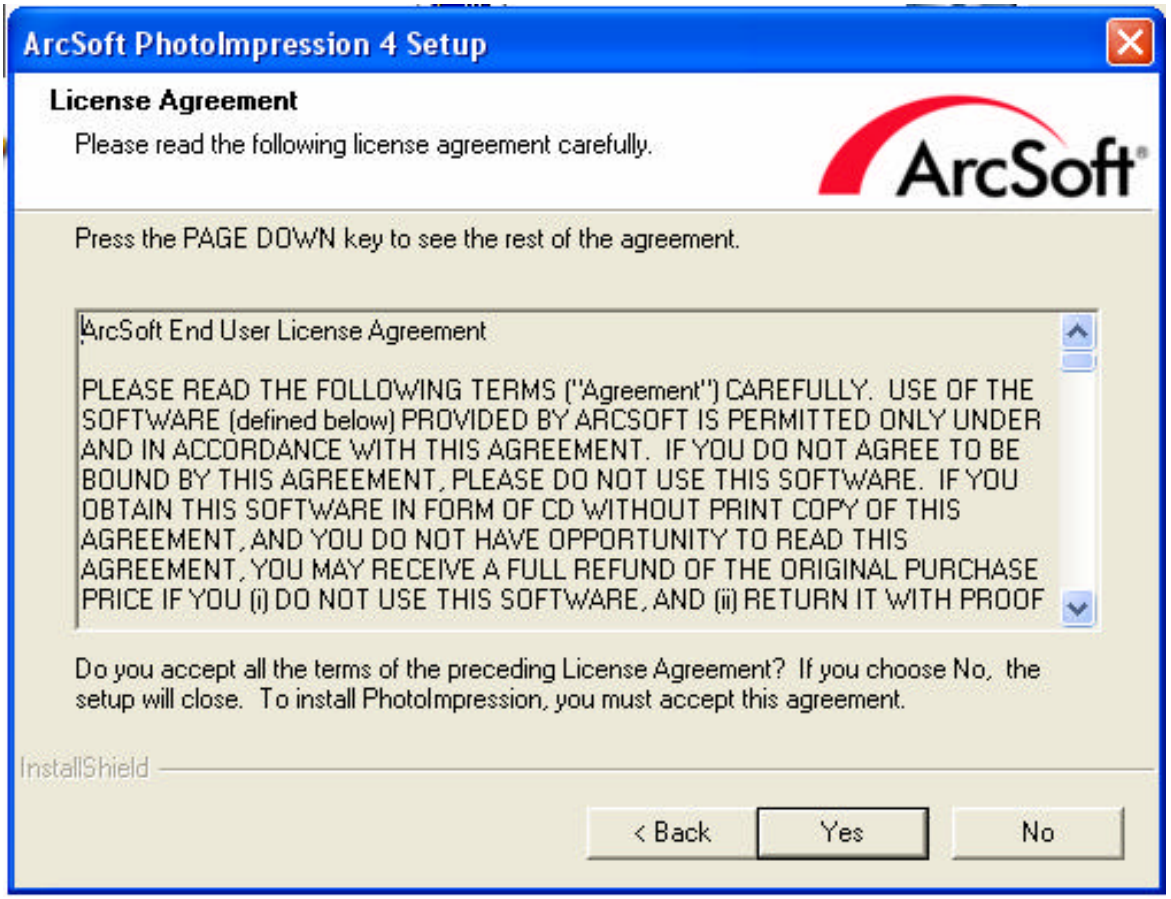
6 Using the Photo Impression4.0



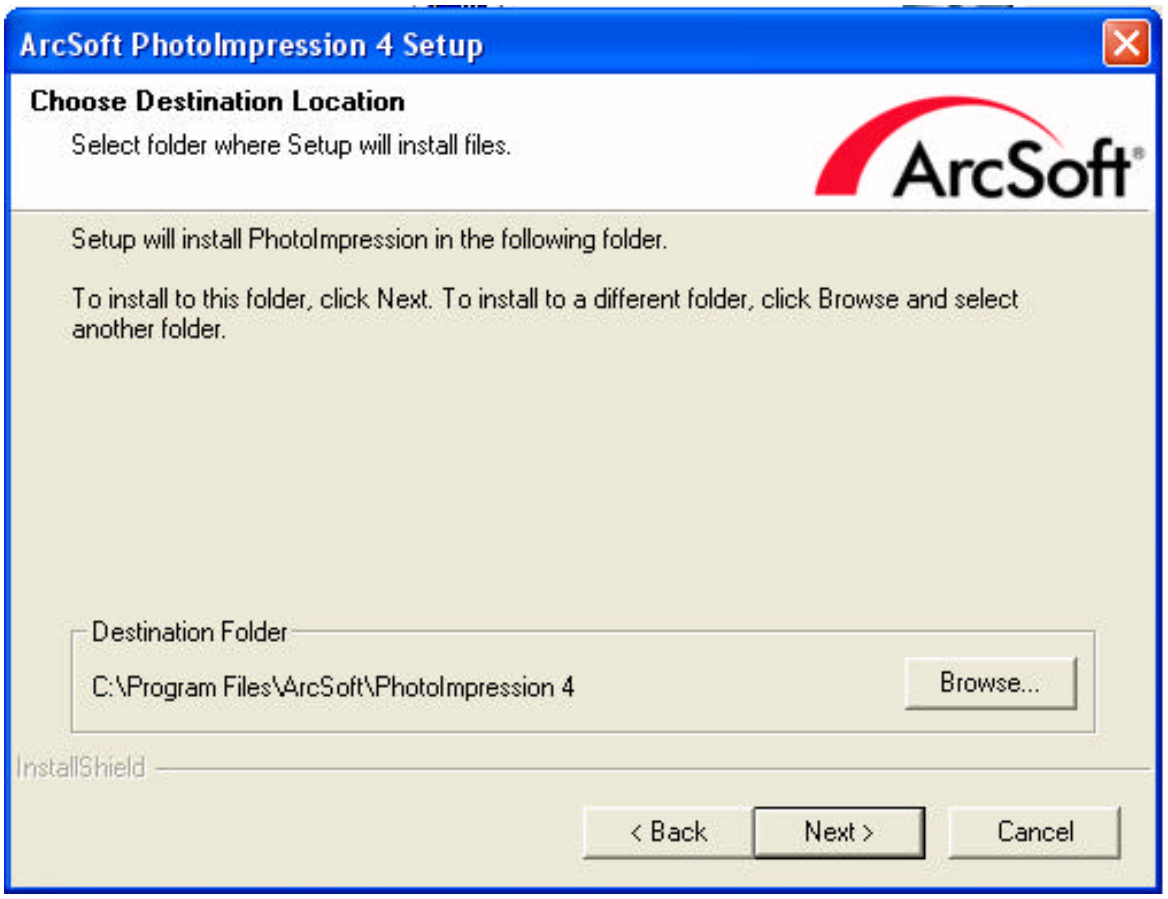
Insert CD-Disc & Select “Arcsoft Photo Impression 4.0”


ArcSoft PhotoImpression 4 Setup
ArcSoft
Welcome to the InstallShield Wizard for PhotoImpression
The InstallShield® Wizard will install PhotoImpression on your computer. To continue, click Next.
< Back
Next >
Cancel

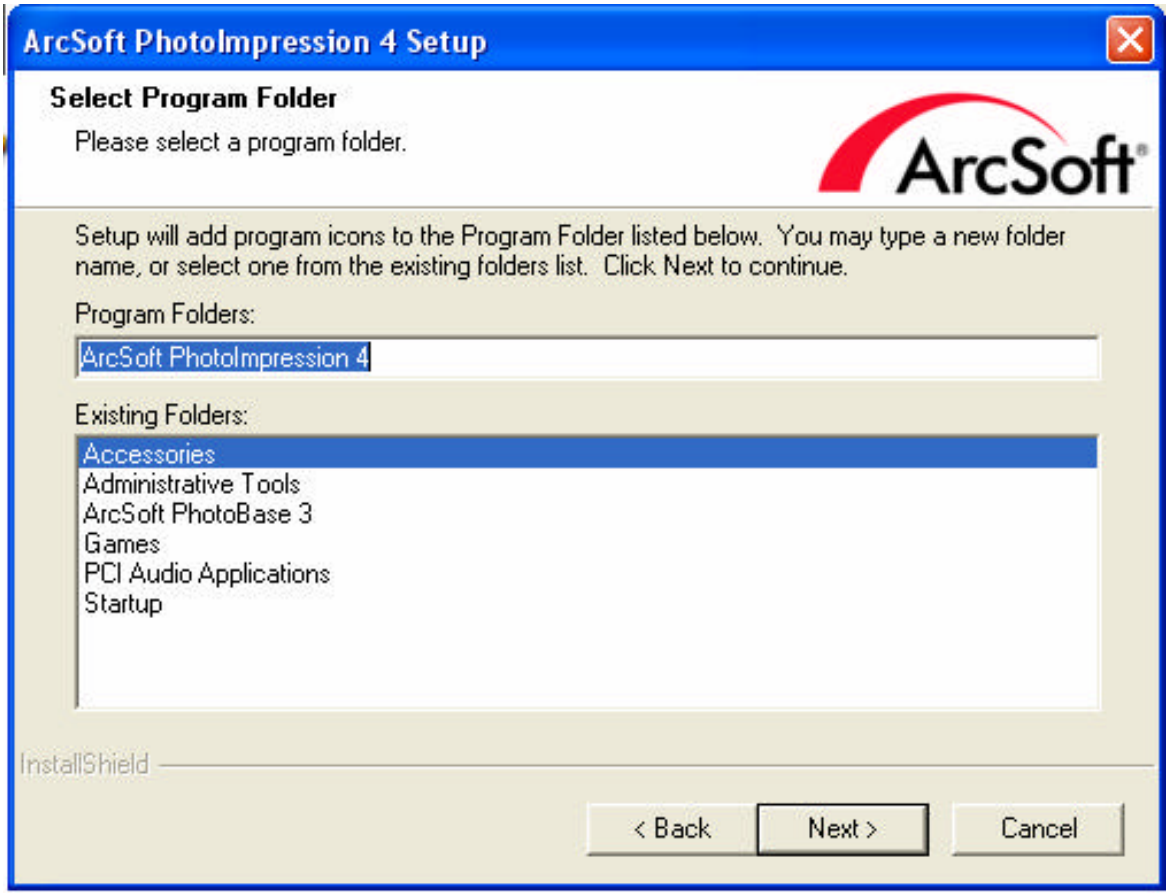
2. Click “Next”


ArcSoft PhotoImpression 4 Setup
License Agreement
Please read the following license agreement carefully.
ArcSoft
Press the PAGE DOWN key to see the rest of the agreement.
ArcSoft End User License Agreement
PLEASE READ THE FOLLOWING TERMS ("Agreement") CAREFULLY. USE OF THE SOFTWARE (defined below) PROVIDED BY ARCSOFT IS PERMITTED ONLY UNDER AND IN ACCORDANCE WITH THIS AGREEMENT. IF YOU DO NOT AGREE TO BE BOUND BY THIS AGREEMENT, PLEASE DO NOT USE THIS SOFTWARE. IF YOU OBTAIN THIS SOFTWARE IN FORM OF CD WITHOUT PRINT COPY OF THIS AGREEMENT, AND YOU DO NOT HAVE OPPORTUNITY TO READ THIS AGREEMENT, YOU MAY RECEIVE A FULL REFUND OF THE ORIGINAL PURCHASE PRICE IF YOU (i) DO NOT USE THIS SOFTWARE, AND (ii) RETURN IT WITH PROOF
Do you accept all the terms of the preceding License Agreement? If you choose No, the setup will close. To install PhotoImpression, you must accept this agreement.
InstallShield
< Back
Yes
No

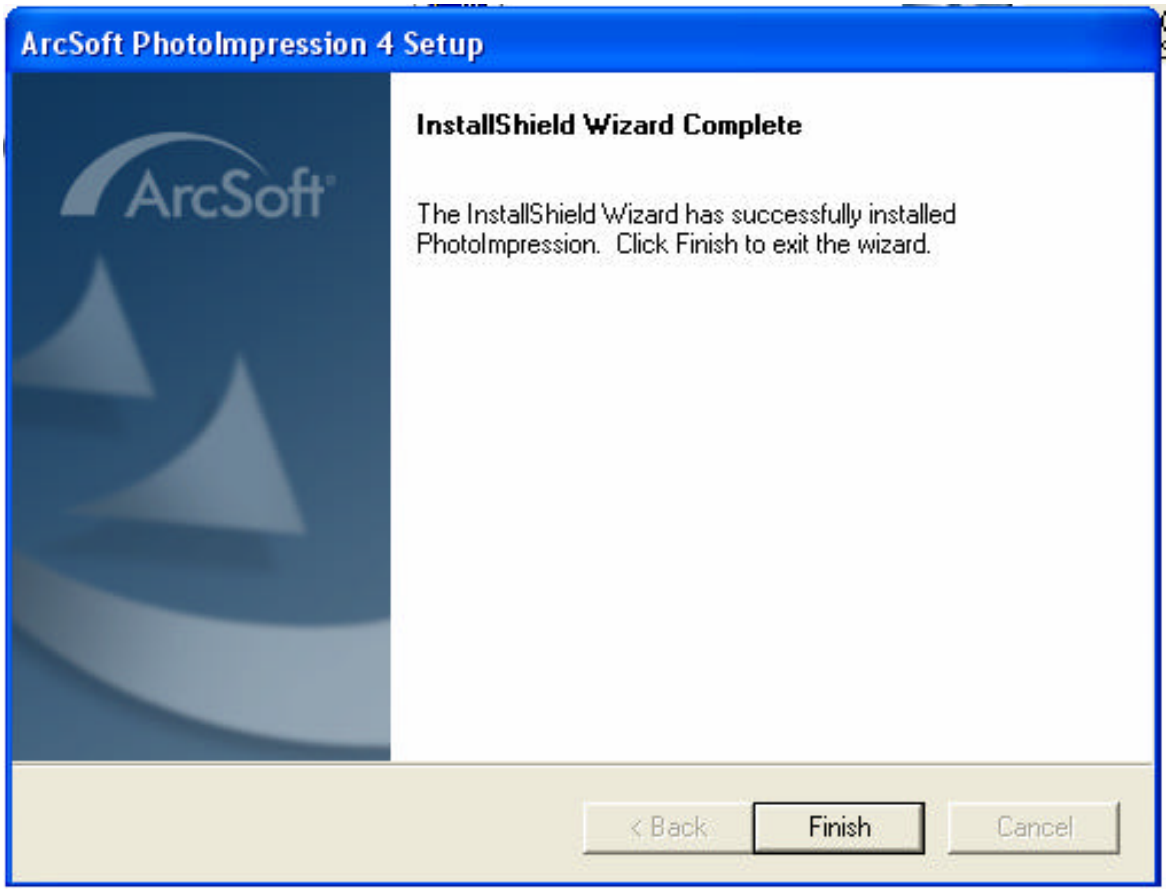
Click “Yes”


ArcSoft PhotoImpression 4 Setup
Choose Destination Location
Select folder where Setup will install files.
ArcSoft
Setup will install PhotoImpression in the following folder.
To install to this folder, click Next. To install to a different folder, click Browse and select another folder.
Destination Folder
C:\Program Files\ArcSoft\PhotoImpression 4
Browse...
InstallShield
< Back
Next >
Cancel

Click “Next”


ArcSoft PhotoImpression 4 Setup
Select Program Folder
Please select a program folder.
ArcSoft
Setup will add program icons to the Program Folder listed below. You may type a new folder name, or select one from the existing folders list. Click Next to continue.
Program Folders:
ArcSoft PhotoImpression 4
Existing Folders:
Accessories
Administrative Tools
ArcSoft PhotoBase 3
Games
PCI Audio Applications
Startup
InstallShield
< Back
Next >
Cancel

Click “Next”



Click “Finish”

7 Troubleshooting (Digital Camera)

Problem	Symptom	Likely Cause	Solution
No power	Camera will not turn on	Battery power has been depleted	Recharge the internal battery (section 8)
Picture-taking	Image appears blurred or dark	The camera or subject was moving when the shot was taken	Hold the camera firmly
		The subject is too close	Move away from the subject
		The lens is dirty	Clean the lens with a soft cloth
	Flash does not go off as expected	Flash has not finished charging	Wait until the green LED is steady
		The flash has been turned off	Make sure the flash is set to AUTOmatic or ON
	Camera will not focus	Subject is not in the center of the lens viewfinder or LCD (preview)	Move the subject to the center of the lens viewfinder or LCD (preview)
	Cannot take pictures when the shutter button is pressed	Camera is not turned on	Turn on the camera
		No space on the SD card / internal memory	Delete unwanted files (section 8) or insert a new SD card (section 8)
		The camera has timed out	Turn the camera on
PC Connection	PC does not recognize the camera	Check the USB cable connection	Make sure both ends of the USB cable are connected
		Interference from other USB devices	Disconnected other USB devices

		Check computer	Connect the camera to the PC with the USB cable and select [My Computer] – [Control Panel] – [System] – [Device Manager]. In the [Device Manager] window delete [Compose USB device] or [Unknown device] in [Other devices]. Then disconnect the camera and install the software before reconnecting the camera to the PC.
Camera malfunctions during use	Electrostatic discharge interfered with the camera	Check if the camera is connected to the PC	Turn off the camera and then turn it back on. If connected to the PC disconnect the camera from the USB cord, and turn it off then on again.
LCD	The LCD does not light.	If you turn the power off with the LCD off, the LCD screen is still set to OFF the next time the power is turned on.	Press the LCD button once to turn on the LCD.
Everything on the LCD flashes and "7" or "8" is displayed	Camera firmware defect	Sync firmware with PC	If the "Camera firmware is out of sync. Update recommended. Update firmware?" message appears when you connect the camera to your PC with the USB cable, click the [Yes] button to update your firmware.
LCD displays "E2" when a SD memory card is inserted	Incompatible file system on SD memory card	Format SD card	See **Deleting an image/Formatting flash memory or SD card** in section 8

8 Specifications (2-Megapixel Digital Camera)

Imager	1/3-inch SMaL UXGA-format CMOS imager with Autobrite*
Imager Resolution	1600 x 1200 active pixels
Dynamic Range	55 dB linear / up to 85 dB with Autobrite*
Exposure Control	Automatic with Autobrite and low-light-level strobe activation
Sensitivity	Equivalent to ISO 100
Exposure time	1/15 second to 1/10,000 second
Exposure-to-exposure time	<4 seconds
Lens Lens focus	Glass, F.L. = 8.6mm, F/3.0 (equivalent to 49 mm lens on a 35 mm camera) Fixed, 1.5 m (4.9 ft) to infinity
Viewfinder	Reverse-Galilean optical viewfinder
Display	Color TFT (1.5" or 1.8")
Controls	Power on-off, mode selection, shutter button, LCD on-off, menu, select, arrow up, arrow down
Strobe	Xenon flash lamp, guide number = 4.5
Strobe activation	Automatic (low-light detection)
Strobe distance	Approx. 0.8m ~ 2m
Image resolution settings	Hi-resolution (2048x1536)pixels Medium (1600x1200)pixels Low-resolution (800x600)pixels
White Balance	Autobrite*
Built-in storage	16MB flash memory holds 21 images (high-resolution); 84 images (low-resolution)
Expansion slot Computer/host interface	SD card USB 1.1
System requirements	233 MHz Pentium 2 or greater with MS Windows 98SE, ME, 2000, or XP; Apple Macintosh G3 with OS 9 or above
Dimensions	87.88 mm x 55.88 mm x 13mm (3.46" x 2.20" x .044")(not including protruding lens)
Weight	Approx. 46 grams
Battery specification	Lithium-polymer battery (rechargeable, non-removable)
Operation environment	Temperature: Approx. 0°C ~ 40°C (32°F ~ 104°F) Humidity: 80% or less (no condensation)

*Autobrite is a registered trademark of SMaL Camera Technologies, Inc. of Cambridge, MA, USA.

9 Safety Notes

We strongly recommend that you read these Safety Notes (and associated materials) before using your camera.

WARNING

- The enclosed disk is a computer CD-ROM. Never attempt to play this disk on an ordinary music CD player as it may produce extremely high noise levels that could damage your hearing or your audio equipment.
- The camera is a precision instrument. Never attempt to dismantle this device. There is a serious danger of a powerful electric shock.
- Do not drape the connection cord around your neck or otherwise treat the cable carelessly, as this could result in suffocation or injury.
- Do not look through the viewfinder at the sun or other strong light. Doing so could damage your eyesight.
- Do not leave the camera in locations exposed to direct sunlight, as this could cause a fire due to magnification by the lens.
- Do not bring the camera close to a flame or throw it into a fire.
- Do not drop the camera or otherwise subject it to strong impact.
- Do not immerse the camera in water.

Notes on Copyright

Images recorded using your digital camera system cannot be used in ways that infringe copyright laws without the consent of the owner, unless intended only for personal use. Note that some restrictions apply to the photographing of stage performances, entertainments and exhibits, even when intended purely for personal use. Users are also asked to note that the transfer of memory containing images or data protected under copyright laws is only permissible within the restrictions imposed by those copyright laws.

Liquid Crystal

If the liquid crystal display (LCD) is damaged, take particular care with the liquid crystal inside the panel. If any of the following situations arise, take the urgent action indicated:

- If liquid crystal comes in contact your skin: Wipe the area with a cloth and then wash thoroughly with soap and running water.
- If liquid crystal gets into your eye: Flush the affected eye with clean water for at least 15 minutes and then seek medical assistance.
- If liquid crystal is swallowed: Flush your mouth thoroughly with water. Drink large quantities of water and induce vomiting. Then seek medical assistance.

Handling Your Digital Camera Safely
This camera contains precision electronic components. To ensure that images are recorded correctly, do not subject the camera to impact or shock while an image is being recorded.

Places to Avoid
Do not use or store the camera in the following types of locations:

- In the rain or in very humid, dirty or dusty places.
- Places subject to extreme temperature rises, such as in direct sunlight or a closed car in summer. Extremely cold places.
- Places subject to strong vibration.
- Places affected by smoke or steam.
- Places subject to strong magnetic fields (such as near motors, transformers or magnets).
- In contact with chemicals such as pesticides or next to rubber or vinyl products for long periods of time.
- Sandy places such as beaches or deserts, or places where there is wind-borne sand.

Note on Condensation
If the camera is carried suddenly from a cold location into a warm location, water droplets may form on the inside of the camera or on the lens (condensation). When this occurs, switch the camera off and wait an hour before using the camera.

Cleaning Your Camera

- Use a blower brush to remove dust from the lens, LCD or viewfinder, and then wipe lightly with a soft, dry cloth. Leaving the lens extended for long periods can allow dust to enter the camera's viewfinder. However, this does not affect the image.
- Do not scratch hard objects against the lens, LCD or viewfinder as these surfaces are easily damaged.
- Clean the body of the camera with a soft, dry, cloth. Do not use volatile substances such as thinners, benzine or insecticide, as these may react with the camera body finish and cause deformation or remove the coating.

Checked Baggage
When traveling by air, do not place your camera in the check-in baggage. Baggage handling at airports may subject baggage to violent shocks, and the camera may be damaged internally even when no external damage is visible.

To prevent fire or shock hazard, do not expose the camera to rain or moisture.

CAUTION: TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE COVER (OR BACK). NO USER-SERVICEABLE PARTS INSIDE. REFER SERVICING TO QUALIFIED SERVICE PERSONNEL.

Disposing of This Product
When disposing of this product, do so in accordance with your local waste disposal regulations.

10 Trademarks

- Autobrite is a registered trademark of SMaL Camera Technologies, Inc. of Cambridge, Massachusetts, USA.
- Microsoft and Windows are trademarks of the Microsoft Corporation of the U.S. and other countries. Windows is an abbreviated term referring to the Microsoft Windows Operating System.
- Pentium is trademark of Intel Corporation.
- Macintosh, Power Macintosh, iMac, Mac OS are registered trademarks of Apple Computer, Inc
- All other company or product names are trademarks or registered trademarks of the respective companies.